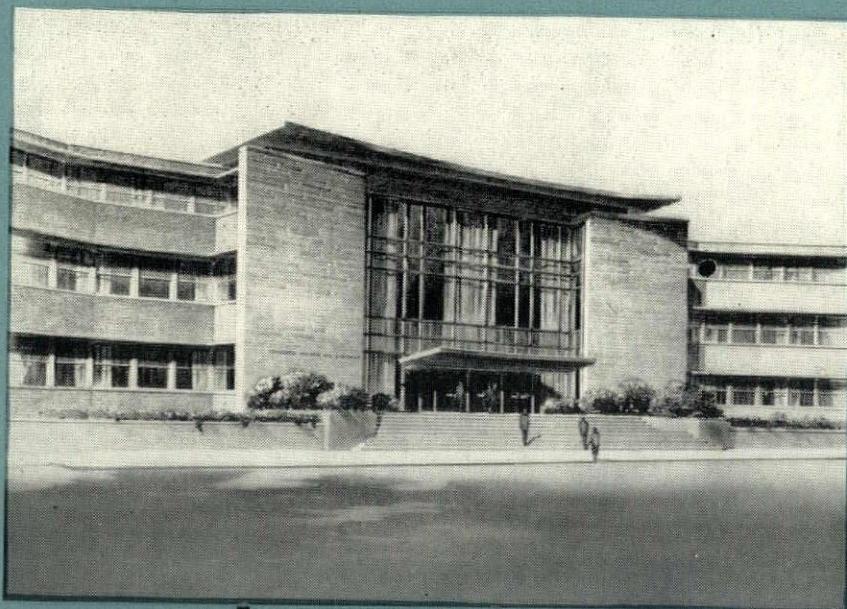


# EMPIRE STATE ARCHITECT

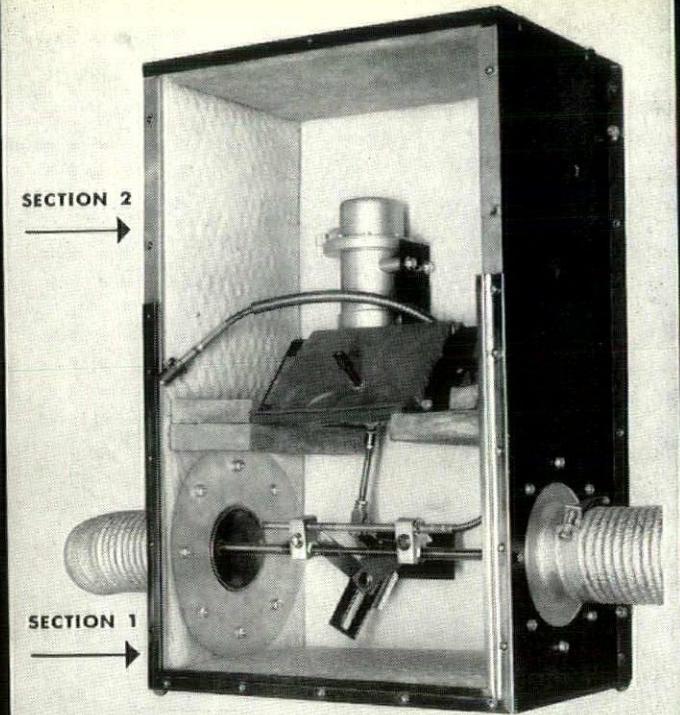


CONVENTION ISSUE

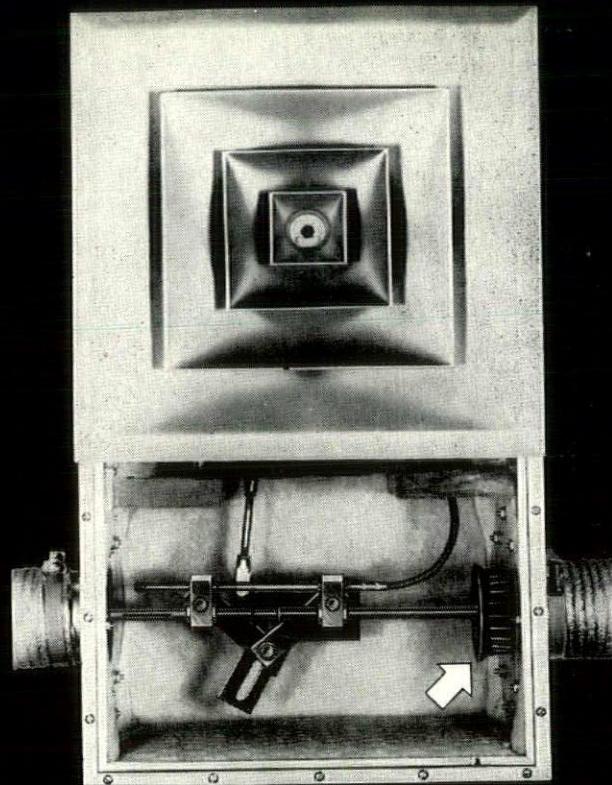
SEPTEMBER - OCTOBER

1956

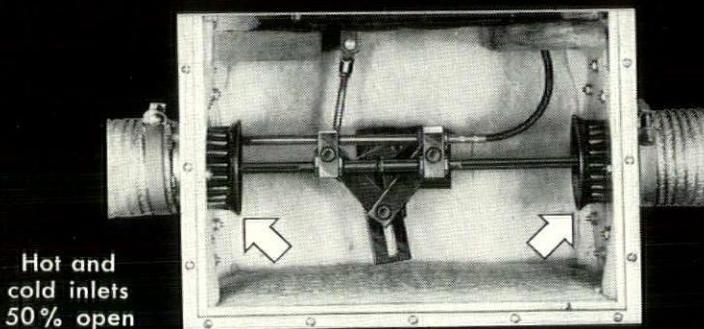
VOLUME XVI - NUMBER V



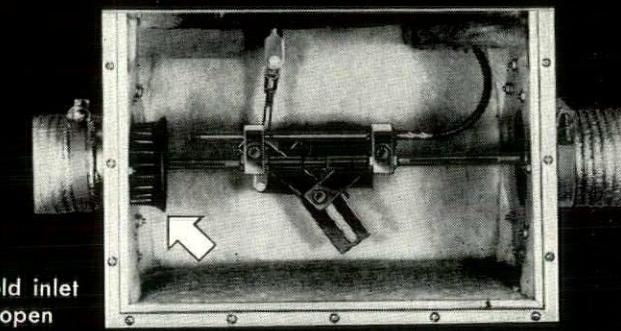
Anemostat High Velocity sound attenuation chamber



Hot inlet open in Section 1.  
Anemostat in place covers Section 2



Hot and  
cold inlets  
50% open



Cold inlet  
open

## How to mix and diffuse high velocity air automatically

The Anemostat High Velocity sound attenuation chamber is divided into two sections. Both hot and cold air from the main risers enter Section 1, which is an acoustically lined blending chamber, in which the volumes of air are controlled by the Anemostat serrated rocket-socket valves. When the thermostat is set, the rocket-socket valves move slowly back and forth, thereby adjusting the volume of air supplied through the hot and cold inlets. The velocity of the air which enters Section 1, at from 3500 to 6000 fpm, is automatically reduced by expansion.

As the blended air meets the temperature

requirements of the thermostat, it passes through a baffle arrangement into the acoustically lined Section 2 of the chamber, further reducing the db rating of the air.

The air then passes through the Anemostat Air Diffusers, where the aspiration effect causes mixing of room and supply air within the diffuser, resulting in further temperature equalization. The diffuser then delivers to the occupants of the room draft-free air at the desired temperature.

The Anemostat All-Air High Velocity distribution system offers other important advantages. It can be used with smaller

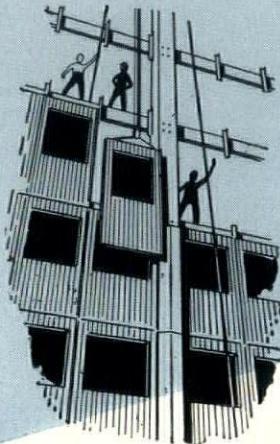
than conventional ducts. It can be installed faster and at less cost. It requires no coils, thus eliminates leakage, clogging and odors. Furthermore, Anemostat round, square and straightline diffusers with high velocity units blend into a wide variety of architectural designs.

*Write for 1956 New Products Bulletin and Selection Manual 50 to Anemostat Corporation of America, 10 E. 39 Street, New York 16, N. Y.*

*Anemostat: The Pioneer of All-Air High Velocity Systems*



# RESPONSIBILITY IN THE CURTAIN WALL JOB

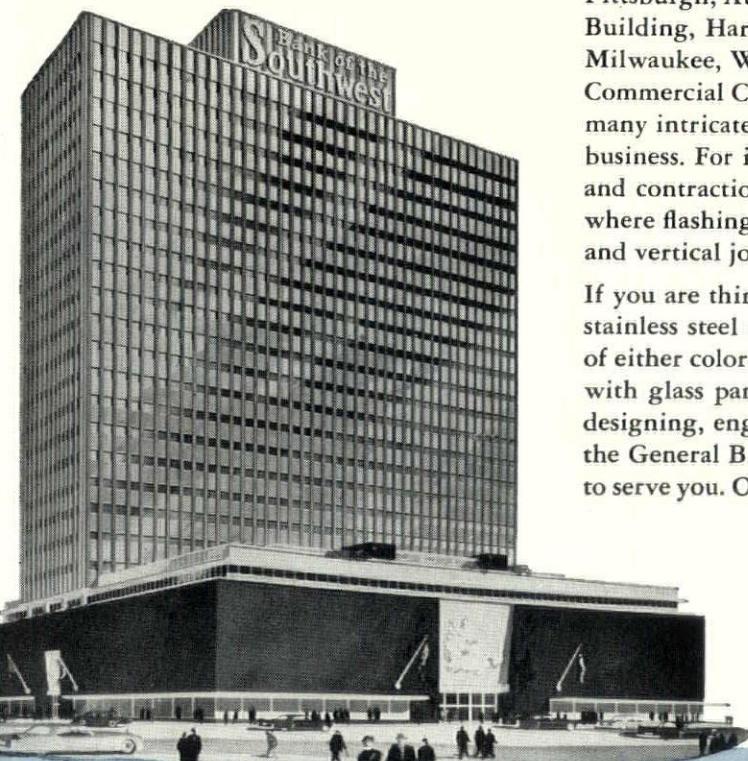


There's no divided responsibility when your specification says:  
"Curtain walls by General Bronze".

General Bronze not only offers you the benefit of their many years of practical experience in designing and producing curtain wall systems but also is ready to take full responsibility for their erection.

As a pioneer in the field of curtain wall we have learned from 10 years experience with more than 24 major jobs—including the United Nations Buildings, and Lever House, New York City, the Alcoa Buildings at Pittsburgh, Atlanta and Cincinnati, the Connecticut General Life Insurance Building, Hartford, Conn., the Equitable Life Assurance Building, Milwaukee, Wisc., the R.C.A. Cherry Hill Offices, Camden, N. J., the Commercial Credit Building, Baltimore, Md., and others—how to solve the many intricate and detailed problems that are a part of this highly specialized business. For instance, we have learned how to take care of expansion and contraction while assuring weather tightness at all times—when and where flashings are necessary—how to design for trouble-free horizontal and vertical joints,—the control of moisture migration, etc.

If you are thinking of curtain walls in terms of aluminum, bronze or stainless steel skins, grids with aluminum windows and insulating panels of either colored alumilite or porcelain enamel, or stainless steel grids with glass panels, we offer you the benefits of our vast experience in designing, engineering, fabricating and erection of curtain walls. Call in the General Bronze representative today. He is ready and anxious to serve you. Our catalogs are filed in Sweet's, Section 17a/Ge.



## Another CURTAIN WALL by GENERAL BRONZE

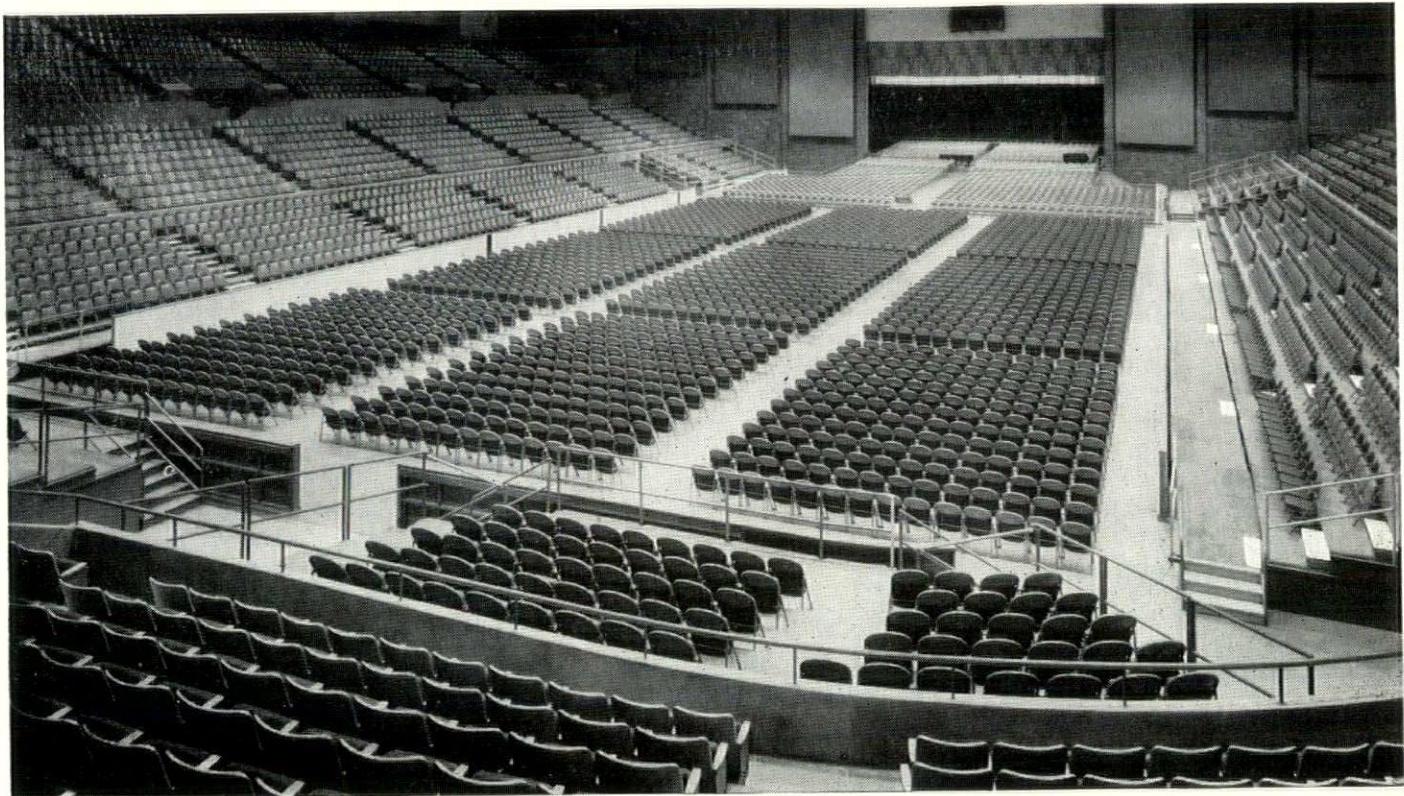
The Bank of the Southwest, Houston, Texas  
Architect: Kenneth Franzheim  
Contractor: W. S. Bellows Construction Co.



**GENERAL BRONZE CORPORATION • GARDEN CITY, N.Y.**

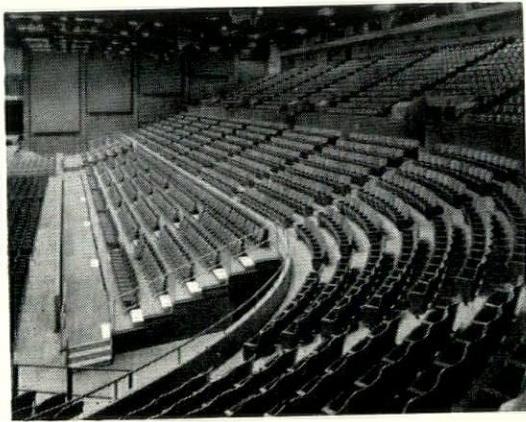
PERMATITE DIVISION—Custom-built Windows, Architectural Metal Work and Revolving Doors. ALWINTITE DIVISION—Stock-size Aluminum Windows  
BRACH MFG. CO. DIVISION—Multel, T. V., Radio and Electronic Equipment. STEEL WELDMENTS, INC. DIVISION—Custom fabrication in steel and iron.

# Convertible Coliseum



Rochester uses 4000 of American Seating's new independent-fold folding chairs, which save nine inches over normal back-to-back spacing, increase seating capacity 30%. Architects: Waasdorp & Northrup, Rochester.

## Unique combination of auditorium chairs and folders lets Rochester War Memorial serve dual purpose



Rochester is also equipped with 5744 BODIFORM auditorium chairs, which have upholstered spring-arch seats, and plywood backs with aluminum channel molding. Full-upholstered and all-plywood BODIFORM chairs are also available.

THE ROCHESTER War Memorial in Rochester, New York, required both a large seating capacity, for such events as lectures and meetings, and ample floor space for sports events and exhibits. The problem was turned over to American Seating, and the pictures on this page show how a combination of BODIFORM® auditorium chairs and independent-fold folding chairs provided the answer, with maximum flexibility, comfort, and beauty.

If you are planning to build, reseat, or remodel an auditorium, why not take advantage of American Seating's more than 70 years of experience in solving seating problems? Contact your nearest American Seating representative today.

**Another tough seating problem solved by**

**AMERICAN  
SEATING**

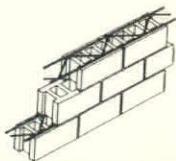


923 W. Genesee St., Syracuse 4  
1776 Broadway, New York 19

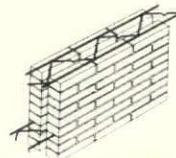
# DUR-O-WAL®

## Backbone of Steel

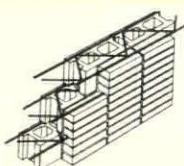
for **EVERY**



RUNNING  
BOND



CAVITY  
WALL



TIED  
WALL



BONDED  
WALL

### ECONOMY

A few pennies invested in Dur-O-wal now can mean big savings later on . . . through prevention of costly cracks and elimination of ugly patchwork.

### BEAUTY

Dur-O-wal steel reinforcing, buried within tight, trim mortar joints, assures years-ahead beauty for any masonry building you design.

### PERFORMANCE

Customer . . . Builder . . . Architect satisfaction from coast to coast. Dur-O-wal stands the test of time in America's finest masonry architecture.

In masonry building specifications you write, the Dur-O-wal reinforcing section is of utmost importance. QUALITY materials serve to assure the finest of structural craftsmanship. It will be our pleasure to work with you on any reinforcing problem. For complete information on Dur-O-wal, write today to Dept. 7K.



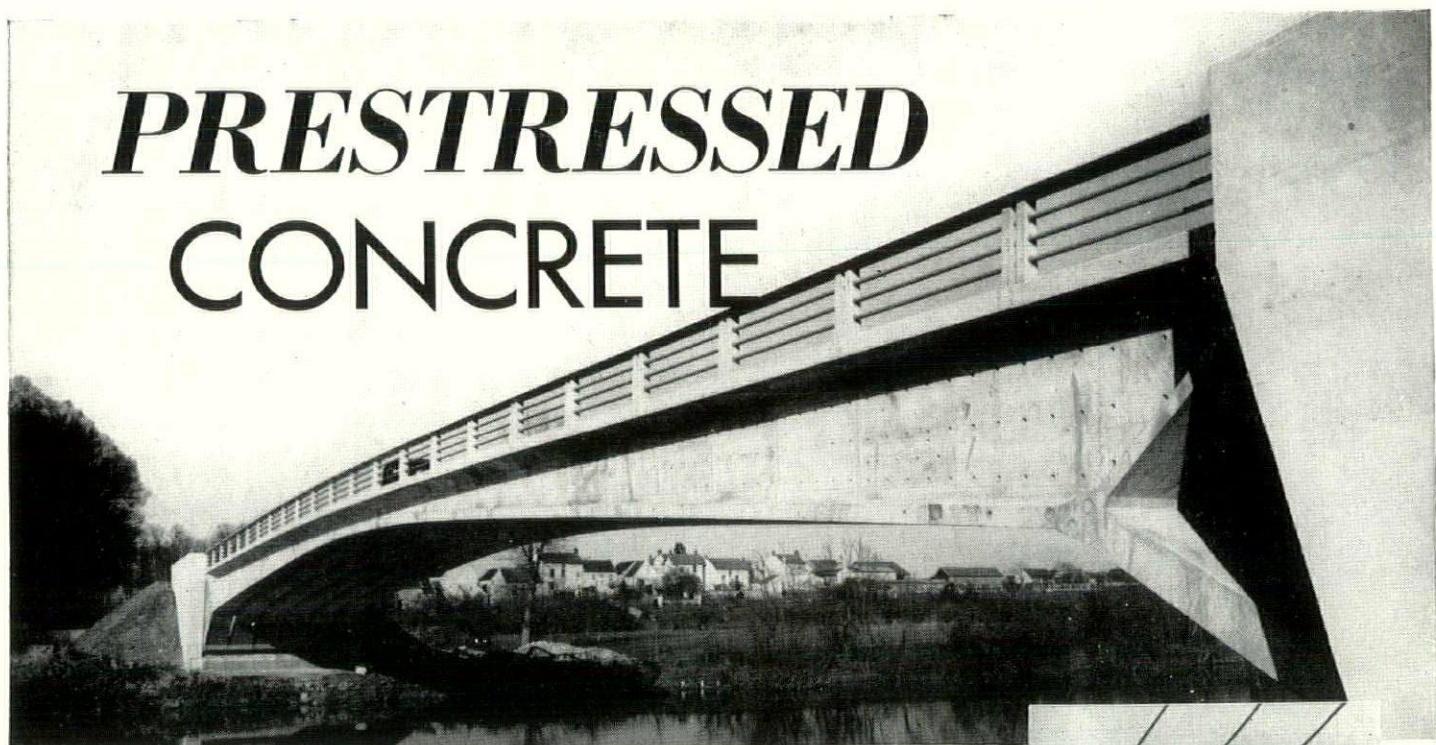
### Trussed Design

Butt Weld • Deformed Rods

# DUR-O-WAL®

Dur-O-wal Div., Cedar Rapids Block Co., **CEDAR RAPIDS, IA.** Dur-O-wal Prod., Inc., Box 628, **SYRACUSE, N.Y.** Dur-O-wal of Ill., 119 N. River St., **AURORA, ILL.** Dur-O-wal Prod. of Ala., Inc., Box 5446, **BIRMINGHAM, ALA.** Dur-O-wal Prod., Inc., 4500 E. Lombard St., **BALTIMORE, MD.** Dur-O-wal Div., Frontier Mfg. Co., Box 49, **PHOENIX, ARIZ.** Dur-O-wal, Inc., 165 Utah St., **TOLEDO, OHIO**

# PRESTRESSED CONCRETE



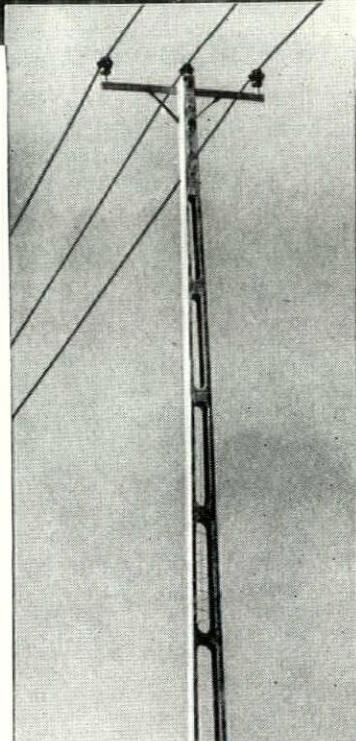
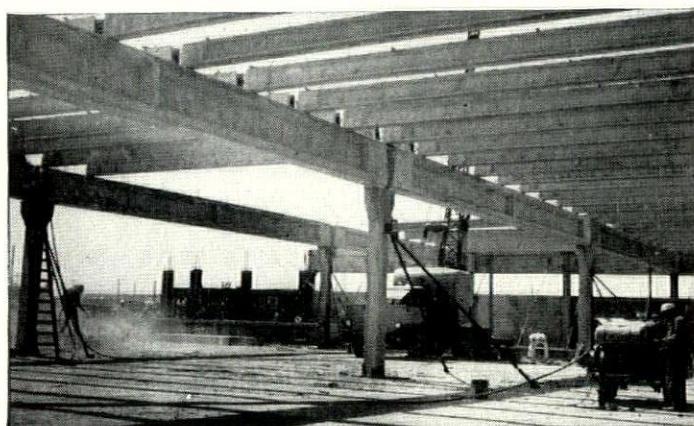
We are now producing prestressed concrete under the Freyssinet process for bridges, and for industrial, commercial, and school buildings.

Prestressing transforms concrete economically into a flexible, efficient building material that takes tension without cracking, and overcomes tensile stresses caused by loads, impact, and volume change. For greater bending moment, we use only the best concrete and high tensile strength steel.

Let our engineers consult with you on this revolutionary construction material.

- Wide-flange bridge girders      ● I-Beam girders
- Channels      ● Double-T slabs

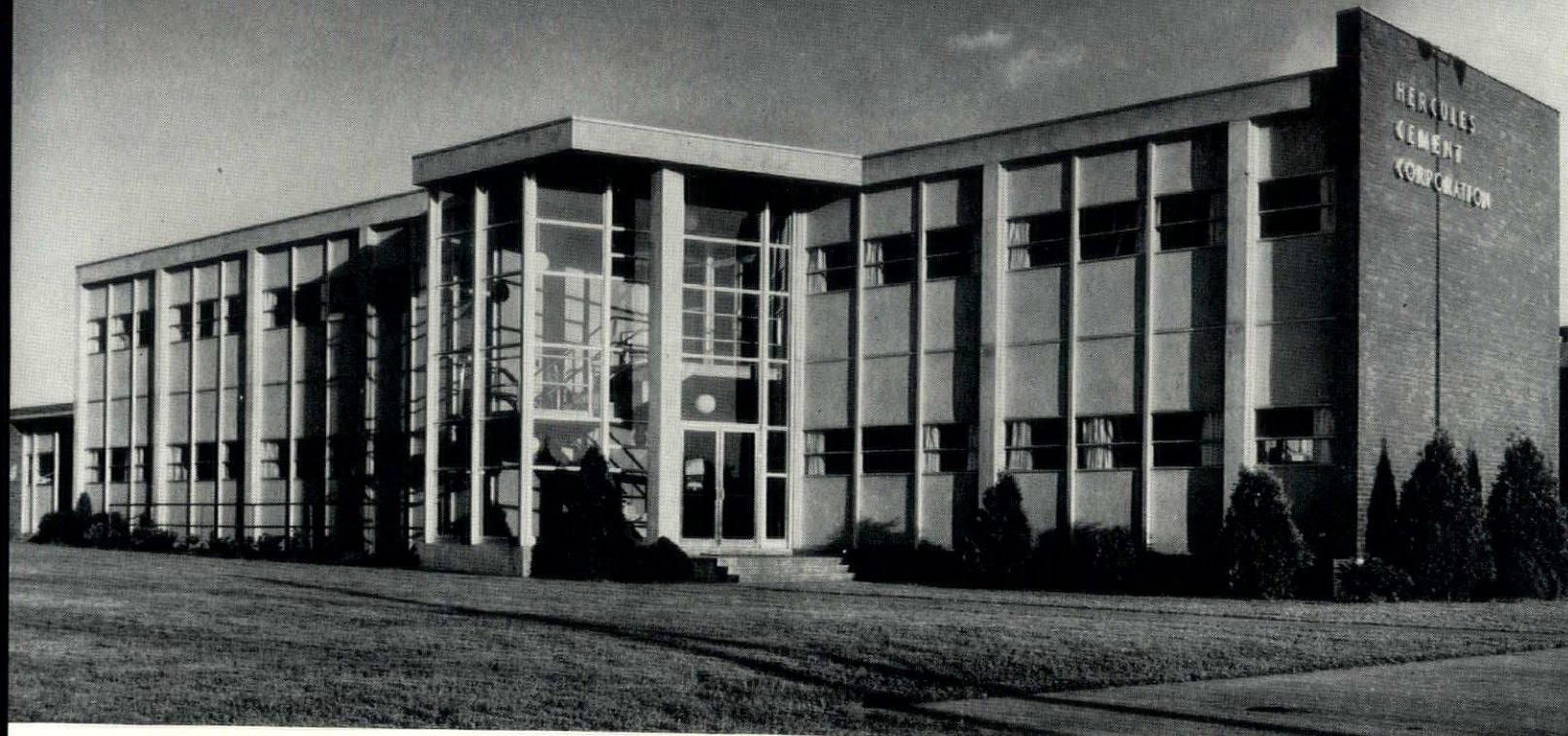
Approved by the Council of the City of Rochester, N. Y.,  
and many other municipalities.



**GOODSTONE MANUFACTURING CO., INC.**

470 HOLLENBECK STREET  
ROCHESTER 21, NEW YORK

**THE DEXTONE CO.**  
NEW HAVEN 3, CONN.



Hercules Cement Corporation Offices, Stockertown, Pa. Architects: Cronheim & Weger,  
Philadelphia, Pa. Contractor: E. C. Machin, Inc., Allentown, Pa. Lupton Type-H Curtain-Walls

New  
Design Horizons  
with  
Lupton  
Curtain-Walls

Architect-designed Lupton Aluminum Curtain-Walls *make* the facade of this smart, modern building. While these particular walls are neutral gray, they could be as colorful as a sunset. They can be designed with a variety of window styles and panel materials, in almost any color or combination of colors, smooth or textured. Their decorative possibilities have no limit. Through pre-fabrication of panels and windows, building construction was faster than by conventional methods, yet the walls are weathertight, weatherproof, insulated and offer a lifetime of service. Fabrication and installation were done under one contract.

If you haven't discovered the beauty, versatility and time-saving qualities of the Lupton Simplified Curtain-Wall System, do it now! You'll find additional data in Sweet's or write for the illustrated brochure that details this modern way to build.

MICHAEL FLYNN MANUFACTURING CO.

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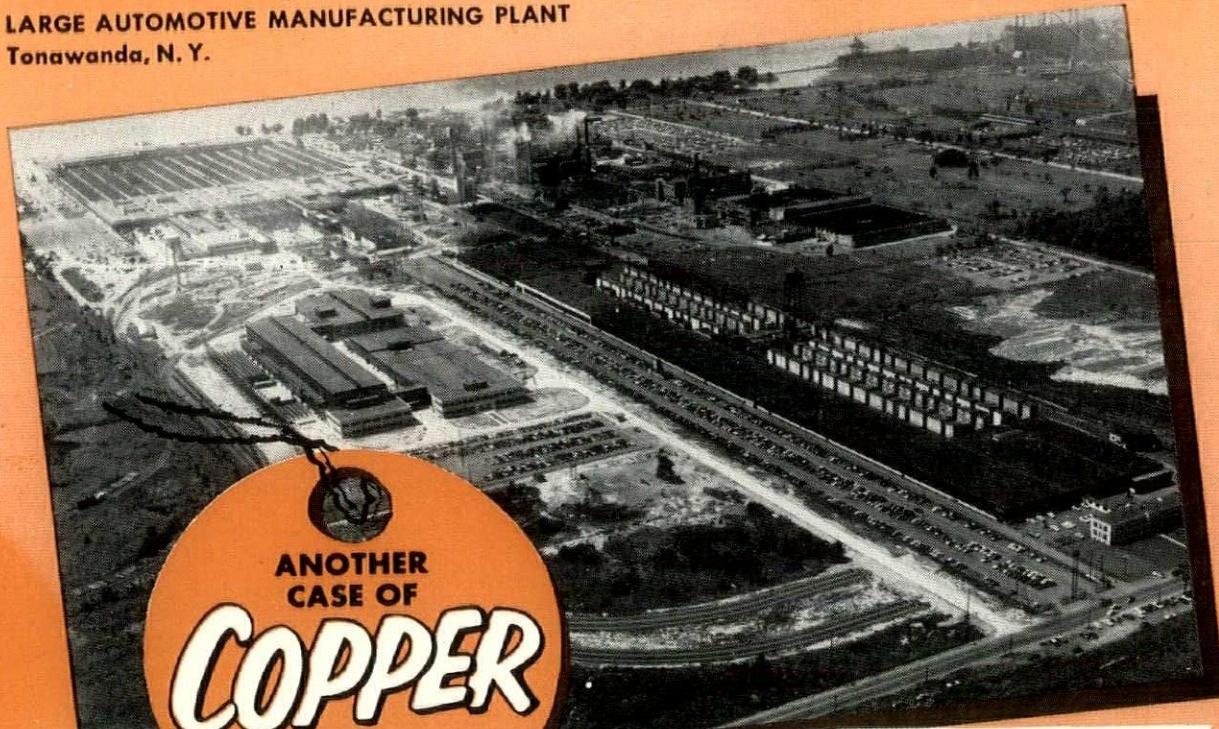
*Sales Offices and Representatives in Other Principal Cities*

**LUPTON**

**METAL WINDOWS AND CURTAIN-WALLS**

LARGE AUTOMOTIVE MANUFACTURING PLANT

Tonawanda, N. Y.



ANOTHER  
CASE OF  
**COPPER**  
WHERE IT  
COUNTS

In this 1,000,000-square-foot plant expansion program, there were 80,000 lbs. of Revere Sheet Copper used covering every conceivable type of flashing. Here are some of the more important reasons why copper was chosen as the material for the job: Copper has been "century-tested" . . . no other metal can come even close to equaling the centuries of satisfactory service enjoyed by copper. The reason for this endurance performance is due to the non-rusting qualities of copper. Copper lends itself to any type of architecture. It is readily fabricated into any desired shape, being formed and soldered without special tools or undue effort. To wrap it up . . . there is not another metal or alloy that has all of the desirable construction characteristics of copper.

You don't get an expansion joint like the one shown on the opposite page every day in the week, so we thought it would prove interesting both to architects and contractors to show how this particular joint was constructed.

Architect & Engineer: H. E. BEYSTER & ASSOCIATES, INC., Detroit, Mich.  
General Contractor: THE JOHN W. COPPER CO., INC. Buffalo, N. Y.  
Sheet Metal Cont.: WEAVER METAL & ROOFING CO., INC., Buffalo, N. Y.  
Revere Dist.: WHOLESALE BUILDING MATERIALS CORP., Syracuse, N. Y.

To make it easy to follow we have shown both photographs and details of the various steps. This particular joint bridged the gap caused by adding a new section to an existing plant.

As an added service to architects and sheet metal men all Revere Sheet and Strip Copper is now marked with the correct gauge and temper in water soluble ink. Ask your distributor to show you. Also ask him about the neat-appearing, weather-tight, easy-to-install Revere-Key-  
stone 2-Piece Cap Flashing.\*

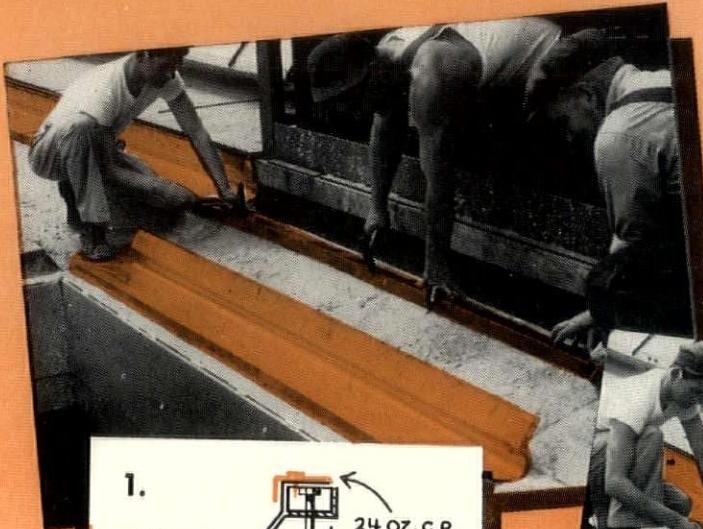
\*Patent No. 2,641,203 Other Pats. Pending

**REVERE**  
COPPER AND BRASS INCORPORATED

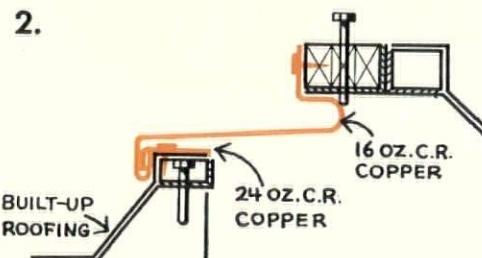
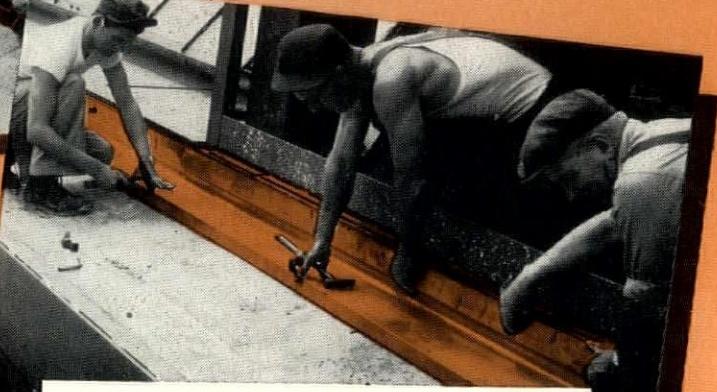
Founded by Paul Revere in 1801  
230 Park Avenue, New York 17, N. Y.

• • •  
Mills: Baltimore, Md.; Brooklyn, N. Y.; Chicago, Clinton and  
Joliet, Ill.; Detroit, Mich.; Los Angeles and Riverside, Calif.;  
New Bedford, Mass.; Newport, Ark.; Rome, N. Y.  
Sales Offices in Principal Cities, Distributors Everywhere.

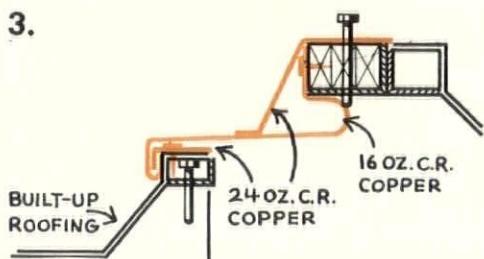
**FREE!** For group showing—Instructive 16 mm motion picture in sound and color—"SHEET METAL IN BUILDING CONSTRUCTION." A "must" for every Architect, Building Owner, Spec. Writer, Sheet Metal Contractor and Mechanic. Write Revere Advertising Dept.



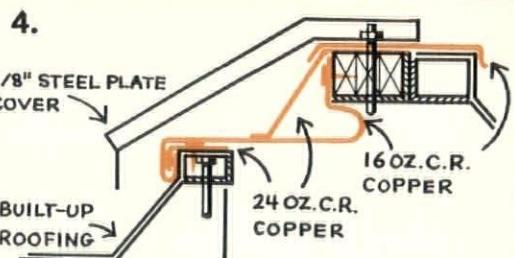
**PUTTING FASTENING STRIP** into place. 24 oz. Revere Cold Rolled Copper was used.



PREFABRICATED 8' STRIPS were then put into place. Here 16 oz. Revere Cold Rolled Copper was used.



24-OZ. REVERE COPPER COVER STRIP was then put into place. This strip acts as a run-off and prevents seepage into the joint.



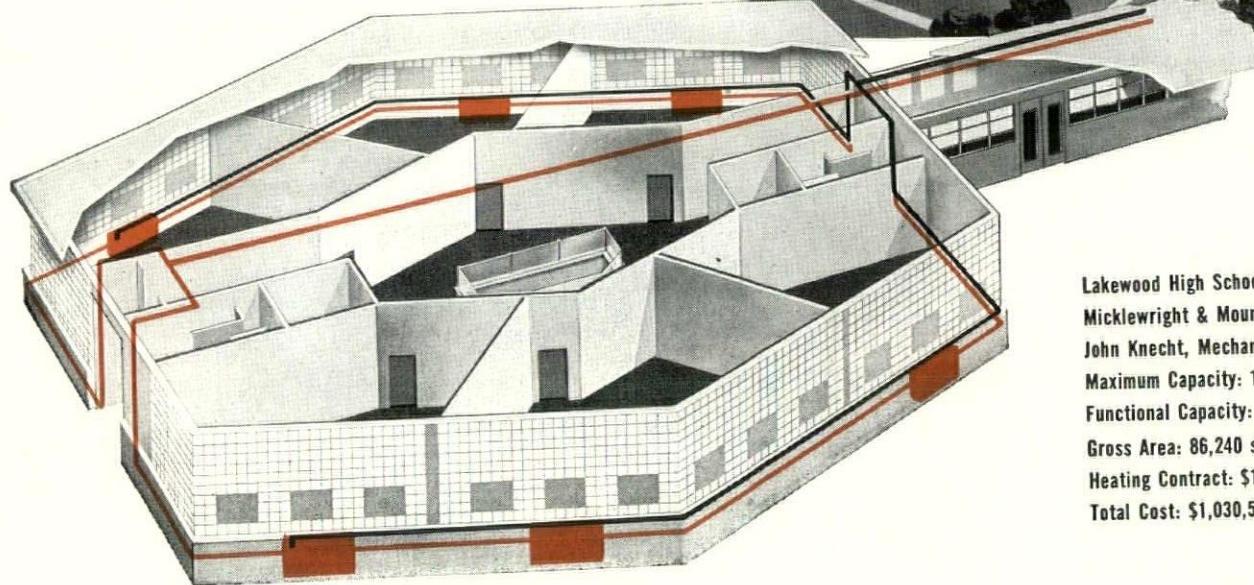
JOINT WAS THEN FINISHED OFF with 8 ft. strips of 16 oz. Revere Sheet Copper as shown above. Note that in every case the copper strips were prefabricated in the shop and delivered on the job ready for instant assembly. Prefabrication saves time and trouble on the job, avoids delays caused by bad weather.

# PROOF...

# More Learning per School Dollar

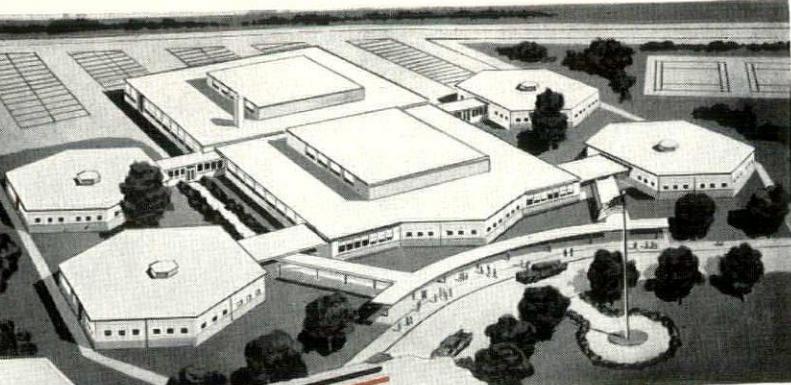
## through use of the Nesbitt Series Hot Water Wind-o-line System

This Nesbitt heating and ventilating system, with automatic temperature control, was installed in Lakewood High School at a cost of \$1.38 per square ft. of floor area!



THE specification of the Nesbitt Series Wind-o-line System for Forced Hot Water Heating at Lakewood High School saved 2,400 feet of pipe trenches and 2,900 feet of additional mains and pipe covering when measured against a conventional steam system.

The Nesbitt Series Wind-o-line System effects these savings through the use of a unit ventilator radiator that delivers the required amounts of heat by multi-passing only one-third the usual amount of water—but at higher temperatures than is circulated by conventional hot water systems. This reduces the pipe size requirement to where the copper tubing of Wind-o-line Radiation can serve as the only supply and return piping for all the unit ventilators in an entire classroom wing, thus elimi-



Lakewood High School, Lakewood, N. J.  
Micklewright & Mountford, Architects  
John Knecht, Mechanical Engineer  
Maximum Capacity: 1000 pupils  
Functional Capacity: 800 pupils  
Gross Area: 86,240 square feet  
Heating Contract: \$118,787.00  
Total Cost: \$1,030,533.00

nating the need for mains, costly pipe trenches, coverings, and individual runouts to each unit.

Moreover, smaller water quantities mean smaller, less expensive pumps—with lower operating costs. And because the gravity heating effect of Wind-o-line Radiation and the Syncrétizer radiator is sufficient to maintain overnight classroom temperatures, the cost of additional controls and equipment for that purpose is eliminated.

The Nesbitt Series Wind-o-line System means *greater comfort*, too! Since the system water temperature is varied by outdoor temperature, Wind-o-line's protection against cold surfaces and window downdrafts is continuously related to actual needs—helping to create the thermal environment most conducive to learning.

Nesbitt Heating and Ventilating offers you

**MORE LEARNING PER SCHOOL DOLLAR**

Write for further information

# Nesbitt

S E R I E S   W I N D · O · L I N E   S Y S T E M

Manufactured and sold by John J. Nesbitt, Inc., Philadelphia 36, Pa.

Sold also by American Blower Corporation and Canadian Sirocco Co., Ltd.

# EMPIRE STATE ARCHITECT

THE OFFICIAL PUBLICATION  
NEW YORK STATE ASSOCIATION OF ARCHITECTS

## CONVENTION ISSUE

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### ON THE COVER

The massive entrance to Standard-Vacuum Oil Company's new building at 1000 Westchester Avenue, White Plains, embodies a faint aura of the Far East in its design, pointing up the fact that much of Stanvac's business is carried out in that part of the world. Behind the two-storied glass area above the doorway is the auditorium. EGgers & Higgins, Architects

Address all communications regarding the State Association to the Secretary, Simeon Heller, 38-11 Union Street, Flushing 54, New York; all editorial comments to Charles Rockwell Ellis, 433 South Salina Street, Syracuse 2, New York; all editorial material to Warren Neal Wittek, 819 Forest Ave., Buffalo 9, New York; and inquiries regarding advertising to the Publisher.

**Publisher** Julian L. Kahle  
21 Clarendon Place, Buffalo 9, New York

### September - October Issue — Vol. XVI, No. V

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Published 6 Times a Year

FOR OFFICE BUILDINGS . . .

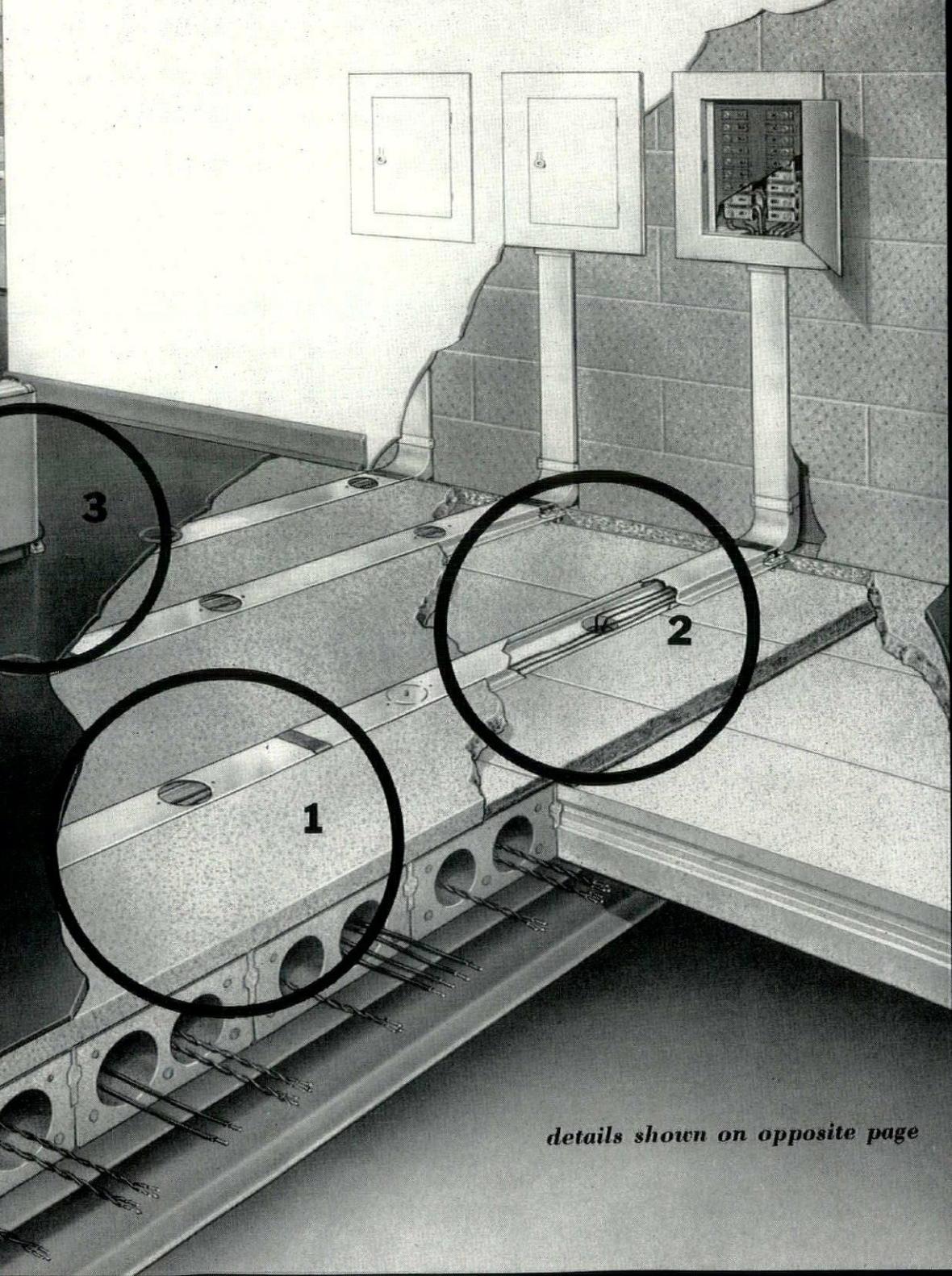
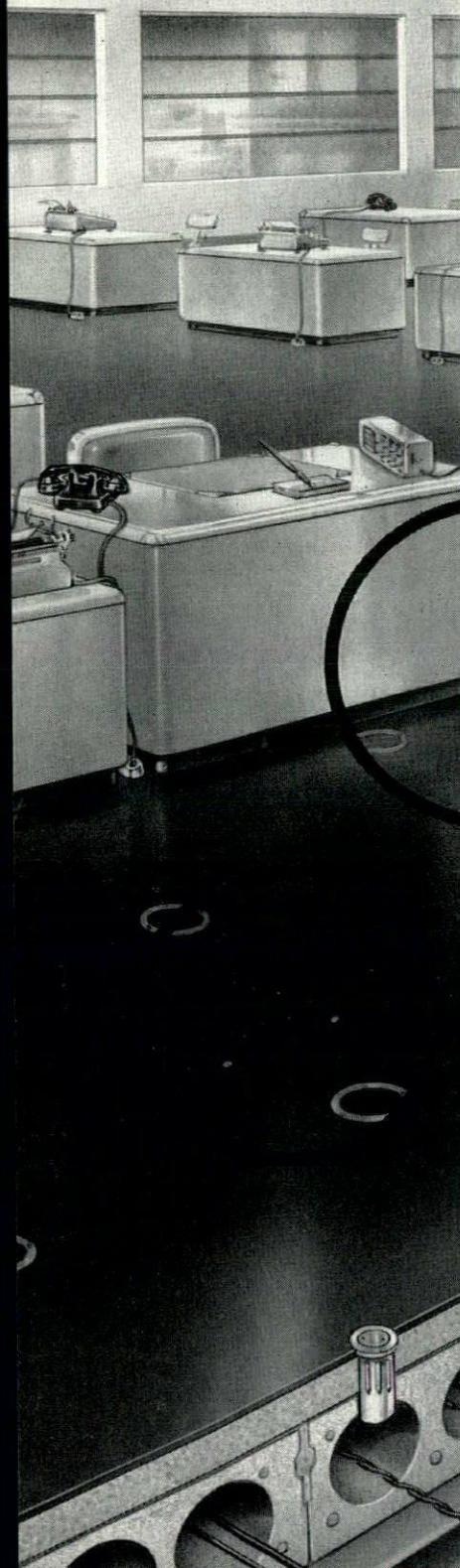
**BUILD OUT OBSOLESCENCE —  
BUILD IN ELECTRICAL FLEXIBILITY**

*at lower cost*

*with*

**FIRESAFE**

**FLEXICORE CONDUFLOR**



*details shown on opposite page*

# what is the FLEXICORE Conduflor

## ELECTRICAL WIRING SYSTEM?

INTERNATIONAL ELECTRIC CODE APPROVED

Conduflor is an ingenious method of transforming floors from mere structural platforms into actual working areas. Conduflor electrifies floors so that electrical and communication outlets can be readily located wherever building occupants require them — immediately or in the future.

Metal Conduflor Feeder Ducts, working in conjunction with the hollow concrete floor construction, produce a tremendously flexible electrical system. Conduflor is the most economical way of providing for the countless changes in outlet location that are required in modern buildings.

The hollow **FLEXICORE** concrete floor slabs are fire resistive — and as no additional fire-proofing is needed, considerable savings are effected in construction costs.

## what can it do?

If you are a building owner, Conduflor saves you money on electrical alterations. It enables you to provide any tenant with adequate electrification to suit his particular needs — with the minimum amount of changes.

If you are an architect or builder, you'll like all the features mentioned — plus the fact that the precast **FLEXICORE** floor slabs go up fast in any weather, provide a working platform for other trades.

If you are an electrical designer, **FLEXICORE** Conduflor enables you to make every square foot of floor electrically alive. There are no dead areas — up to 12,800 possible locations for outlets are available in 5000 square feet of floor area. That's good insurance for future expansion, and best of all changes can be made with little difficulty or expense.

### OTHER ANCHOR PRODUCTS

Autoclaved Denstex Celocrete and Concrete Blocks.  
Strecrete Precast Floor and Roof Slabs.  
Precast Lintels and Sills.  
Anchorseal Colorless Water Repellent (Silicone Base).

### DISTRIBUTORS FOR

Dur-o-wal steel reinforcing for masonry walls.  
Medusa Portland Cement Paint, for concrete wall surfaces.  
Medusa Floor Coating, for concrete floors.

Office interior shows  
(A) flexibility of Conduflor in  
meeting all electrical  
requirements

(B) Feeder goes across this  
area, note hand-hole rings  
and cover plates in  
foreground

SEE ANCHOR'S EXHIBIT FEATURING FLEXICORE-CONDUFLOR  
AT THE NEW YORK STATE ASSOCIATION OF ARCHITECT'S  
CONVENTION BOOTH 43



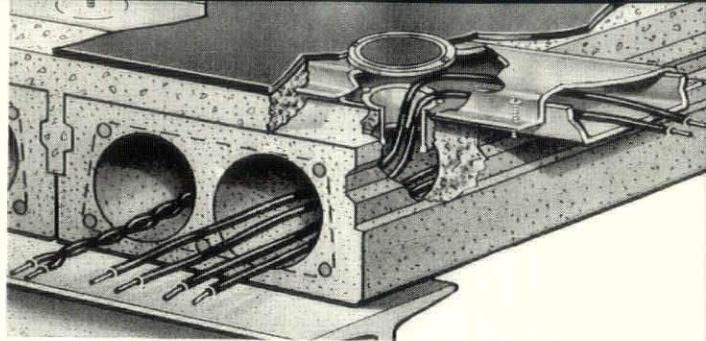
# ANCHOR

## CONCRETE PRODUCTS, INC.

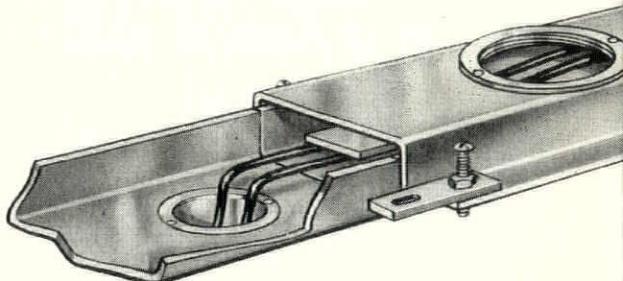
WABASH AVE. at 2450 WILLIAM ST.

BUFFALO 6, N. Y.

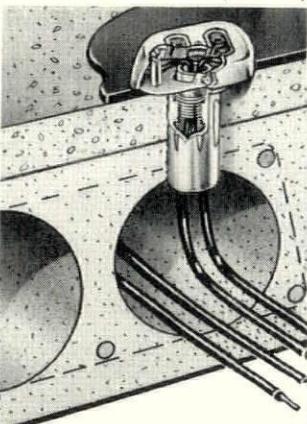
COPYRIGHT 1956 ANCHOR CONCRETE PRODUCTS, INC., BUFFALO, N. Y.



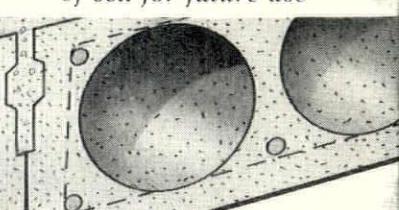
1 Section showing Conduflor Feeder Duct with  
topping and floor surface laid over precast slabs.



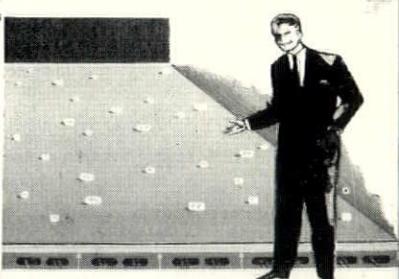
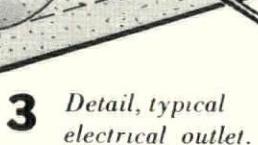
2 Conduflor Feeder Duct, showing hand-holes in top  
and bottom for easy electrification



4 Marker stud locates centre  
of cell for future use



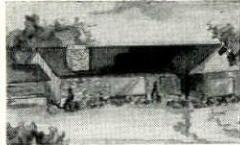
CONDUFLOR CAN PROVIDE OUTLETS  
ANYWHERE ON ANY FLOOR.





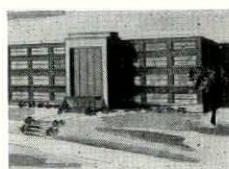
## LIFETIME® VINYL... worn by the best-dressed floors... everywhere

In beautiful homes, in busy public buildings—wherever floors of lasting beauty and quality are desired—LIFETIME® VINYL is the first choice among architects, designers and homeowners. The exceptionally wide selection of beautiful color styles, ranging from the most delicate pastels to the boldest, brightest shades, the unique and distinctive patterns allow amazing flexibility of design to suit every interior.



Robbins LIFETIME® VINYL is superior in every respect. Made of all virgin vinyl, it is 100% homogeneous; color and pattern go completely through the tile—can never wear off.

Each tile is perfectly gauged and perfectly sized by Robbins exclusive process to provide fast, easy



installation, and finished floors of outstanding beauty.

You will want to have complete information about the entire Robbins line of Vinyl Tile, Rubber Tile, Cork Tile, Cove Base and other fine flooring products. Write, wire, or telephone our factory and offices in Tuscumbia, Alabama, today, or consult the yellow pages of your telephone directory for name and address of nearest distributor.

**FIRST and FINEST**  
*in VINYL !*

ROBBINS FLOOR PRODUCTS, Inc.  
Tuscumbia (Muscle Shoals), Alabama

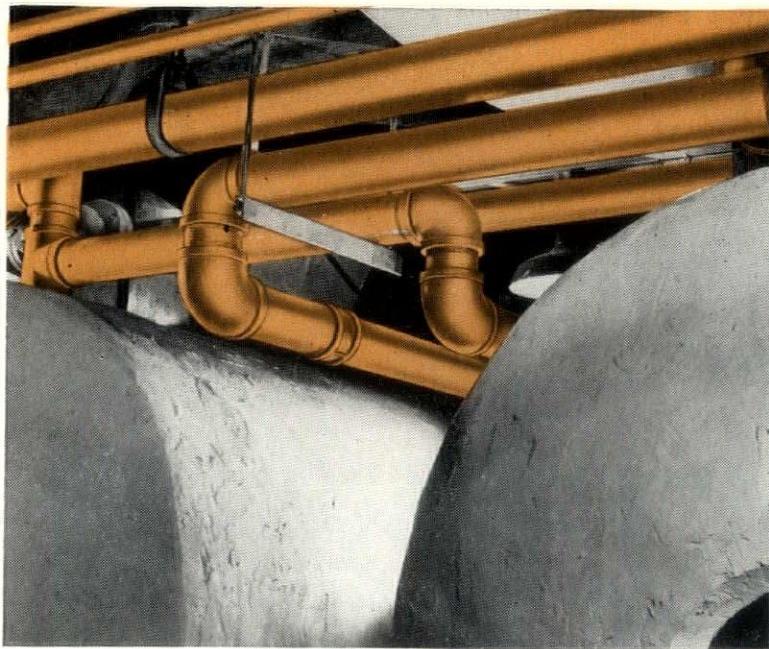
PERMANENT SHOWROOMS:

535 Fifth Avenue, Arcade Ground Floor, New York, N. Y.  
Space 131-177, Merchandise Mart, Chicago, Illinois

**COPPER** and **RED BRASS** for dependable service with low maintenance



The new 45-story Socony Mobil Building, 42nd Street and Lexington Avenue, New York, N. Y.



Anaconda 85 Red Brass Pipe, 4-inch size, carrying hot water from two of the three copper-lined hot water storage tanks in the subbasement of the Socony Mobil Building. Two additional 2200-gallon tanks are located on the 43rd floor.

in the new

## **SOCONY MOBIL BUILDING**

**Anaconda Red Brass Pipe**  
for Hot and Cold Water Service

**Anaconda Copper Tube**  
and Red Brass Pipe for Air Conditioning

*Owners*  
GALBREATH CORPORATION

*Associated Architects*  
HARRISON & ABRAMOVITZ—JOHN B. PETERKIN

*General Contractor*  
TURNER CONSTRUCTION COMPANY

*Consulting Engineers*  
JAROS, BAUM & BOLLES

*Plumbing Contractor*  
EUGENE DUKLAUER, INC., NEW YORK

*Mechanical Contractor*  
KERBY SAUNDERS, INC., NEW YORK

**B**ECAUSE red brass pipe and copper tube do not rust—are expected to last the life of the building—and cost little to maintain, they provide true, long-term economy in two vital services for the new Socony Mobil Building.

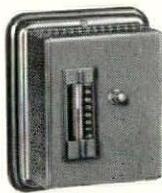
More than 200,000 pounds of ANACONDA Red Brass Pipe, in sizes from  $\frac{1}{2}$ " through 4", provide the hot and cold water supply service. Glauber, Inc., New York, Anaconda distributor, supplied the pipe.

Distribution of the warm and chilled water for the year-round unit air conditioning system required 4,000 feet of ANACONDA Red Brass Pipe; 14,000 feet of Type L ANACONDA Hard Copper Tube; 60,000 feet of Type L ANACONDA Soft Copper Tube. New York Plumbers Specialties Co., Inc., Anaconda distributor, supplied the tube.

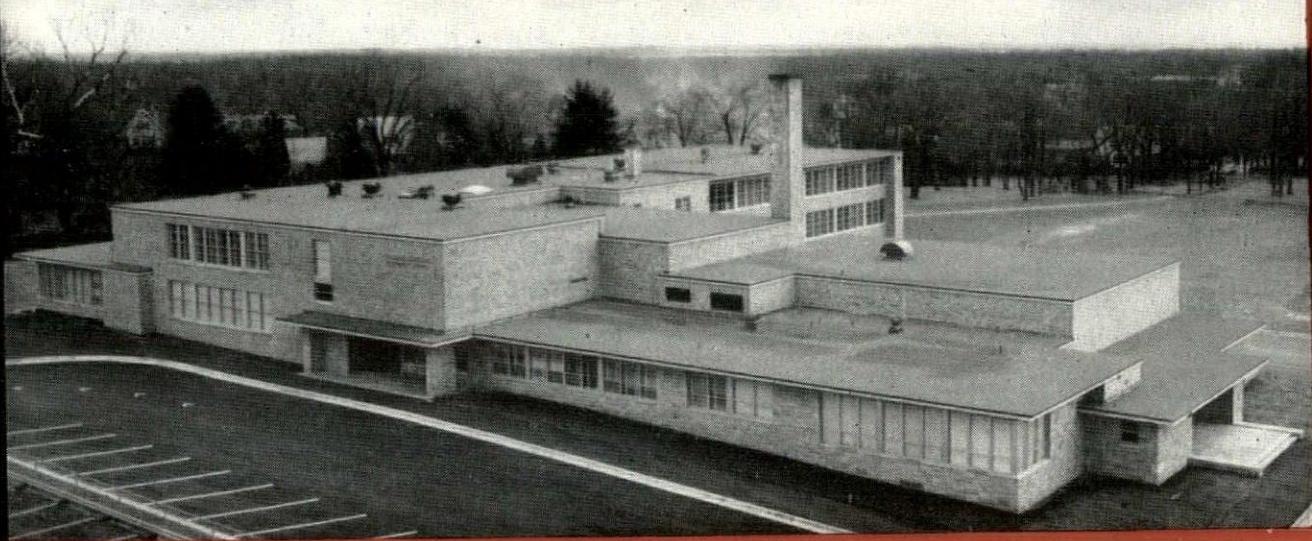
For piping that will last a long, long time and cost little to maintain, turn to Anaconda. If you have special corrosion or structural problems, the services of the Technical Department are available to you. See your local Anaconda representative or write: The American Brass Company, Waterbury 20, Conn. Buffalo Division: 70 Sayre Street. District Sales Offices: New York City, Rochester, Syracuse.

5605A

**ANACONDA®**  
**RED BRASS PIPE AND COPPER TUBE**



## Solve The "After-Hours" Heating Problem with JOHNSON DUAL CONTROL



The *Dual* System of Johnson Automatic Temperature Control is the modern answer to the special comfort and economy requirements of today's schools. The specially planned system installed at William H. Holmes School\* illustrates why:

**COMFORT.** Strategically located Johnson *Dual* Thermostats in every room insure ideal temperatures to satisfy the exact needs of the occupants, day and night. Convector and the central heating and ventilating systems are under precision control at all times. For added comfort, air for ventilation is properly humidified before delivery. Special indoor-outdoor controllers anticipate the need for more or less heat in accordance with outdoor temperature. There is no overheating, no underheating. Comfort is uninterrupted!

**ECONOMY.** When regular school hours end, each of three groups of *Dual* Thermostats are reset—from a central point—to operate at lower, non-occupancy temperatures. In those rooms which

continue in use, merely pressing a button on the room's *Dual* Thermostat restores it to normal occupancy temperature, *without changing the economy settings of the other thermostats*. With Johnson *Dual* Control, "after-hours" heating problems are a thing of the past!

Further savings, day and night, are made possible by Johnson Master-Submaster Thermostats which compensate for changes in outdoor temperatures and limit heat output to actual requirements.

Johnson *Dual* Control eliminates heat waste and insures the maximum return for every fuel dollar—yet there is comfort unlimited!

To learn how the unique comfort and fuel-saving advantages of Johnson *Dual* Control can be applied to any new or modernized building, talk to an engineer from a nearby Johnson branch. His recommendations are yours without obligation. JOHNSON SERVICE COMPANY, Milwaukee 1, Wisconsin. Direct Branch Offices in Principal Cities.

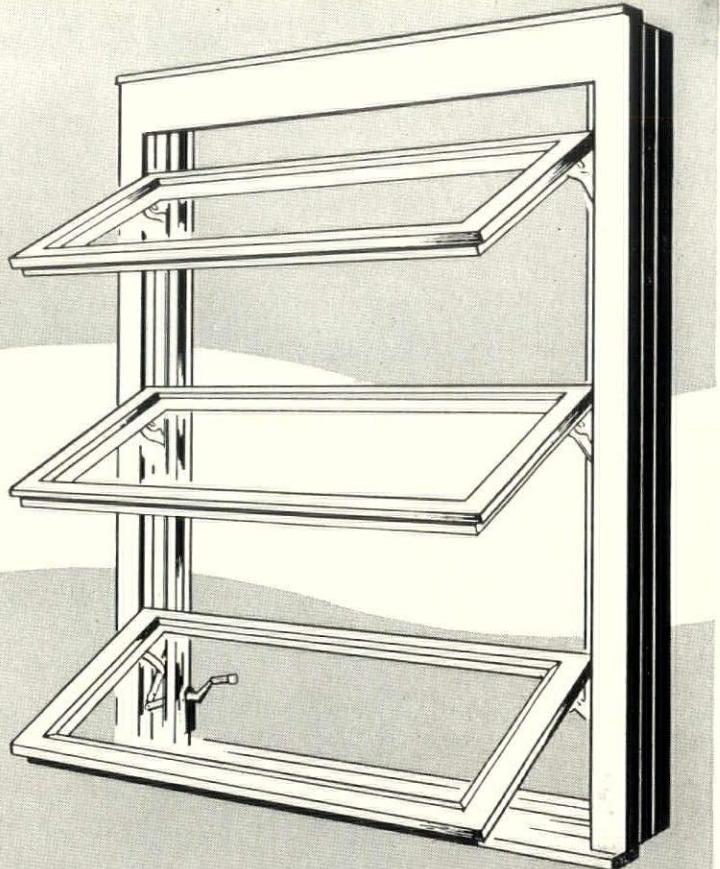
\*William H. Holmes School, Mt. Vernon, New York. Emilio John Di Rienzo and Warren S. Holmes Company, architects; A. H. Karl & Bros., heating contractor; all of Mt. Vernon.



**JOHNSON** **CONTROL**  
TEMPERATURE AIR CONDITIONING

PLANNING • MANUFACTURING • INSTALLING • SINCE 1885

# COMPLETE VENTILATION CONTROL



with



*the easiest closing awning  
window ever made!*

Quality and beauty are combined to make Woodco the finest performing awning window in the industry. Our exclusive VentAir night ventilation window opens to 10° to permit gentle air movement in the room while upper sash remains securely locked. Precision-balanced hardware is so engineered that no adjustments are ever required. Double vinyl weatherstripping\* assures positive closure. Never sticks, never rattles. When you specify Woodco — you specify the best.

#### CHECK THESE EXCLUSIVE ADVANTAGES!

- EASY TO LOCK
- SEQUENCE AIR CONTROL
- TOXIC-TREATED TO PREVENT DECAY
- EXTRA HEAVY SASH and FRAME
- DOUBLE VINYL WEATHERSTRIPPING
- WATER-REPELLENT TREATED
- COMPLETELY ASSEMBLED

For full information we refer you to Sweets Catalog or write to

## WOODCO CORPORATION

Jacksonville 1, Fla.

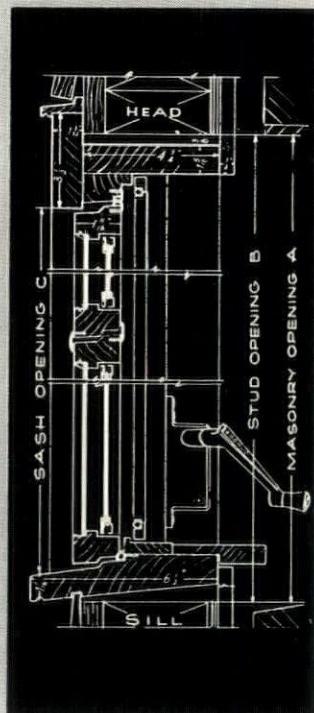
North Bergen, N. J.

Schenectady 3, N. Y.

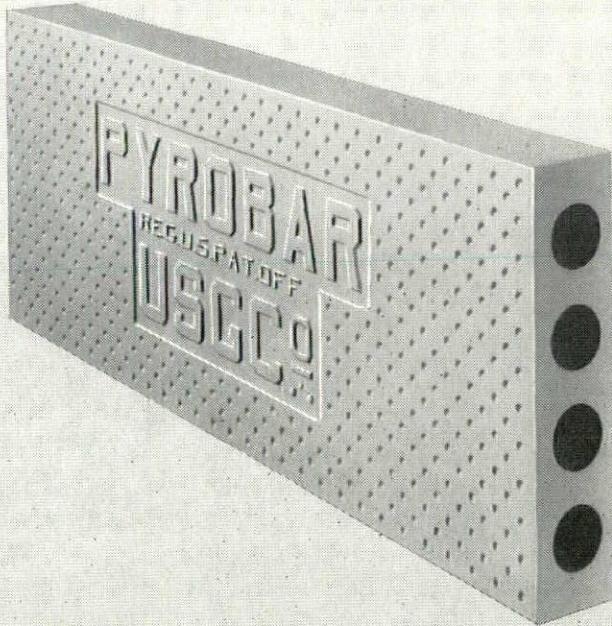
Lowell, Mass.

Factories:

NORTH BERGEN, N. J. and ROCKWELL of RANDOLPH, Inc., Randolph, Wisc.



**Woodco Windows** for the *Beautiful point-of-view...*®



# PYROBAR\*

GYPSUM PARTITION TILE

## LESS WEIGHT

—4" tile now 5 lbs. lighter; 3" tile, 3 lbs. lighter...less dead load on floor.

## LESS WORK

—it's easier to cut PYROBAR; handles easier, lays faster.

## LESS COST

—big 20" x 30" units go up fast; save labor, mortar, plaster, and reduce waste. Use PYROBAR tile!

Use USG\* Partition Tile Cement for erecting PYROBAR. It's easy-mixing, smooth-working, assures finest results. Makes a strong bond with gypsum. \*T.M. Reg. U.S. Pat. Off.



**UNITED STATES GYPSUM**

The Greatest Name in Building

# Good Windows, Yes! — But A Bayley Specification assures you of MUCH MORE!!

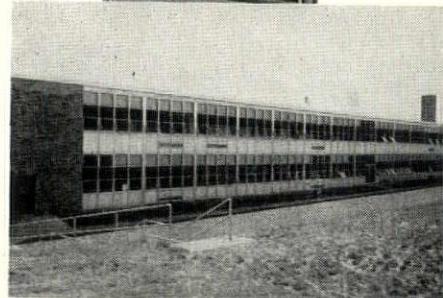
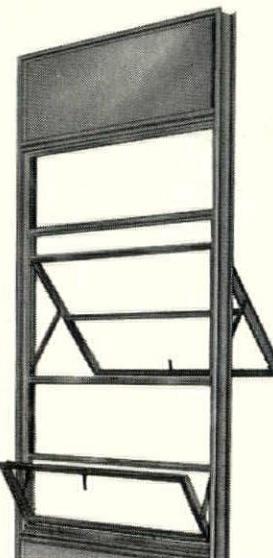
## Check these Extra Bayley Services

- Engineering Consultation Based on 77 Years of Reliability and Leadership In Window Development.
- Pre-engineering Collaboration in applying time-proven, basic designs to the specific project.
- Engineering Field and Sales Cooperation with all parties responsible for the project's completion.
- Engineered Detailing specifically for each project—individualized "custom planning."
- Engineering Controlled Follow-through on all manufacturing operations involved in completing a specific contract.
- Engineered Installation Preparation—detailed marking, scheduling and delivery in Bayley's own trucks to the job site.
- Engineered Installation by Bayley's trained and supervised installation mechanics.
- Engineering Inspection of Completed Project to insure a satisfactory, quality finished installation.

## PLUS

The over-all reliability of a 77 year old, nationally recognized, financially responsible company with complete, modern manufacturing facilities; supported by a nationwide sales engineering and service organization.

**Bayley Projected Windows and Bayley Curtain-Wall system** — in aluminum and steel — has had a major influence on today's trend from the old conventional to the modern. If you are not familiar with Bayley Details see Sweet's or write; or call in your local Bayley Representative.



**Bayley Curtain Walls in Whitehall Junior High School, Allegheny County, Pa.**  
Architect, Altenhof & Brown, Pittsburgh, Pa.; Builder, Brownsville Construction Co., Brownsville, Pa.

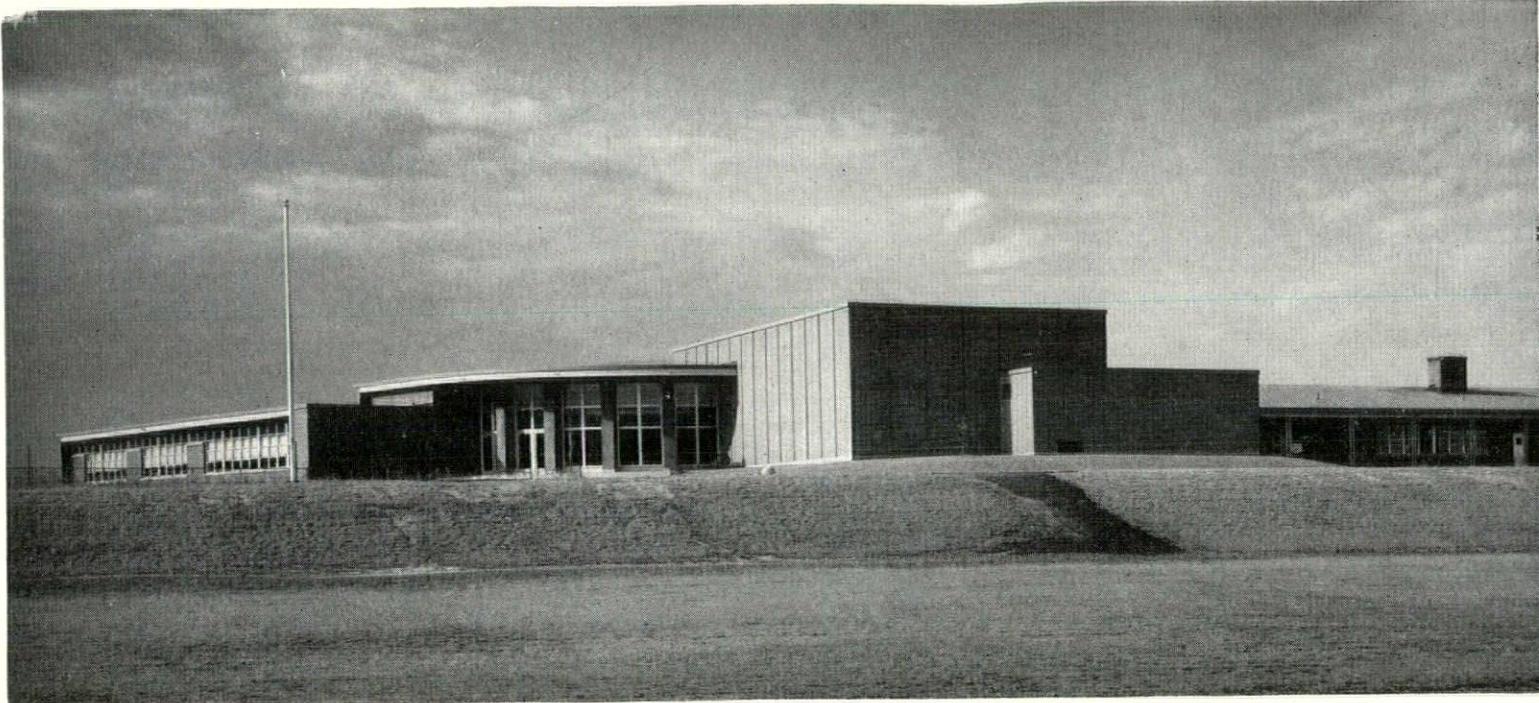


A.W.A. Quality Performance—Materials, Construction, Strength of sections and air infiltration requirements—confirmed by Pittsburgh Test Laboratory MEMBER—AMERICAN WINDOW MANUFACTURERS ASSOCIATION



**THE WILLIAM BAYLEY CO.**  
Springfield, Ohio

District Sales Offices: Springfield • Chicago • New York • Washington



## New Fayetteville, New York School Gets More Classroom Comfort per Dollar

THE crisp, clean lines of the Fayetteville-Manlius Grade School are indicative of its fine design and sound planning. The spacious classrooms, and their modern equipment, create an atmosphere where teaching is more pleasant and learning "comes easier". An important feature of these modern classrooms is their ideal, comfortable climate — provided by Herman Nelson DRAFT|STOP units.

These unit ventilators provide all the essentials for classroom comfort and save costly fuel at the same time. When the classroom is occupied, they are actually *cooling* most of the time. They heat only when heat is necessary to keep temperature at an ideal comfort level. The patented DRAFT|STOP system traps the down-draft of cool air from the windows and draws it into the unit where it is either expelled from the building or warmed and then gently recirculated. Drafts and "cold

pockets" are eliminated *without adding to the heat load of the room*. Herman Nelson provides perfect classroom climates, more classroom comfort per dollar . . . always. If you are planning a new school or a school modernization program, it will pay you to talk with your Herman Nelson man. (See list below), or write direct to Herman Nelson Unit Ventilator Products, American Air Filter Company, Inc., Louisville 8, Kentucky.

#### ALBANY—

Albert L. Becker, 434 Clinton Avenue

#### BUFFALO 2—

Weber, Loes, Weber Associates, Inc., No. 7 Upper Terrace

#### NEW YORK 17—

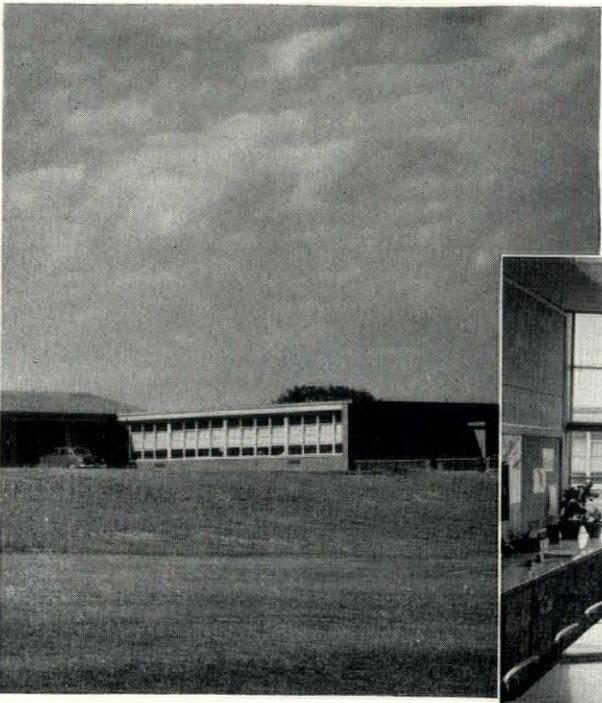
American Air Filter Company, Inc., 70 East 45th Street

#### ROCHESTER 4—

Howard J. Henderson, Jr., 950 Sibley Tower Building

#### SYRACUSE 2—

American Air Filter Company, Inc., 529 State Tower Building



Fayetteville-Manlius Grade School, Fayetteville, New York. Raymond Van Giesen, Supervising Principal, Fayetteville-Manlius School District; Carl W. Clark, AIA, Architect.

In this typical classroom, the downdraft of cold air flowing from the windows is trapped by the patented Herman Nelson DRAFTSTOP system, drawn into the unit ventilator and either recirculated or expelled.



# with DRAFT STOP

## Herman Nelson COVERS New York State!

### Some Recent New York State Installations

High School Addition  
Saratoga, New York  
The Capital Realty Building  
Troy, New York  
Draper School  
Schenectady, New York  
Knob Hill Elementary School  
Albany County, New York  
Goodrich School Addition  
Albany County, New York  
Maple Hill High School  
Rensselaer County, New York  
Kennedy Elementary School  
Kenney, New York  
Falconer School  
Falconer, New York  
Albion Primary School  
Albion, New York  
University of Buffalo  
Buffalo, New York

Euclid Avenue Elementary School  
Jamestown, New York  
Buffalo Street School  
Jamestown, New York  
Trinity Lutheran Church School  
Hicksville, L. I., New York  
Hauppauge School Addition  
Hauppauge, New York  
Our Lady of Grace School  
Bronx, New York  
Island Trees Memorial School  
Island Trees, L. I., New York  
Island Trees School No. 3  
Island Trees, L. I., New York  
Woodstock School  
Woodstock, New York  
Brockport Elementary School  
Brockport, New York  
University of Rochester  
Rochester, New York

Holy Cross School  
Rochester, New York  
McQuaid High School  
Rochester, New York  
Britton Road School  
Greece, New York  
St. Agnes High School  
Rochester, New York  
Manlius School  
Manlius, New York

Red Creek Elementary School  
Red Creek, New York  
Guilford Central School  
Guilford, New York  
St. John the Evangelist School  
New Hartford, New York  
Livonia Elementary School  
Livonia, New York  
Marathon Central School  
Marathon, New York

DRAFT STOP



herman nelson  
UNIT VENTILATOR PRODUCTS

System of Classroom Cooling, Heating and Ventilating

American Air Filter Company, Inc.

## The trend in modern building construction . . .

### CURTAIN WALLS of stainless RIGID-tex metal

Stainless RIGID-tex Metal has rigidity and strength, yet is light in weight. The textured surface reflects a pleasing pattern that eliminates glare and insures visual flatness. That is why curtain wall research recommends a permissible slope up to 2%, compared to 1.25% for flat metal. RIGID-tex Metal is available in all metals . . . all finishes . . . all colors, solid or perforated. There are more than 40 standard patterns from which to choose!

Write us for complete information.

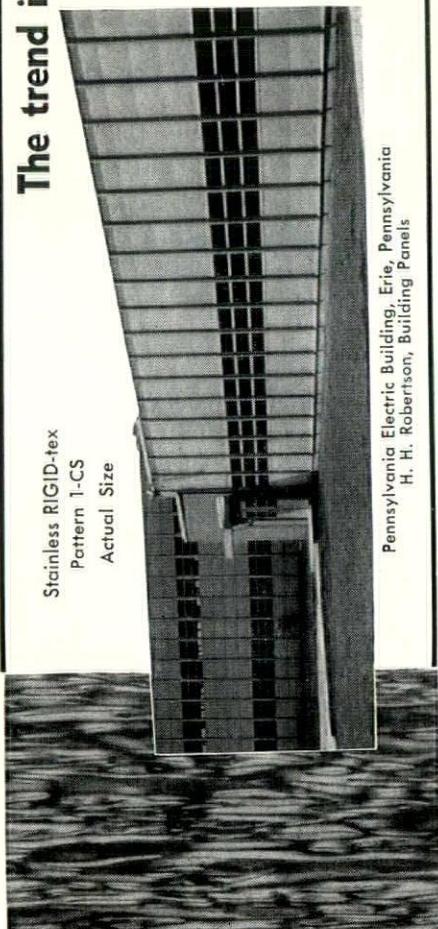
### RIGIDIZED METALS CORPORATION

BUFFALO 2, N. Y.

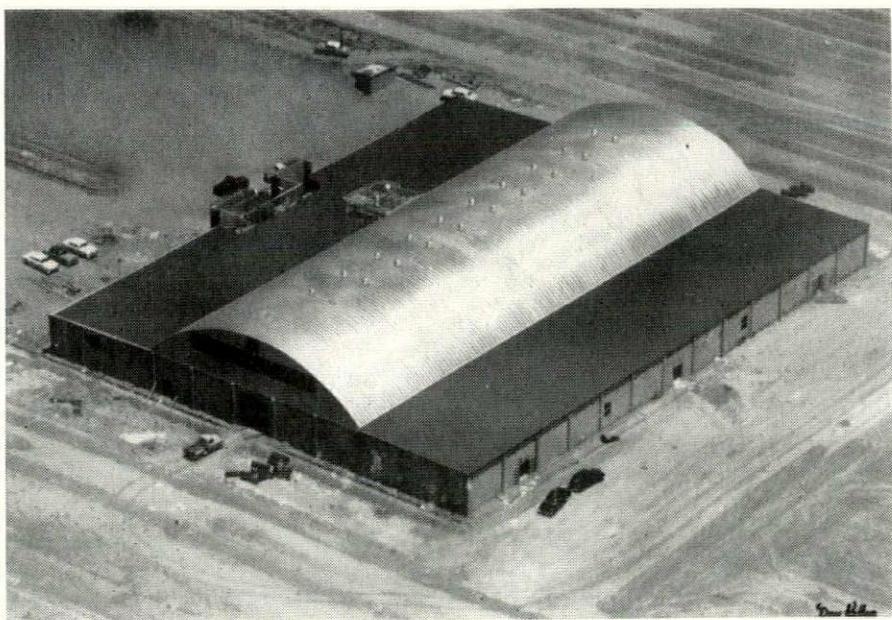
Sales Representatives in Principal Cities



Stainless RIGID-tex  
Pattern 1-CS  
Actual Size



# WORLD'S LARGEST TRUSSLESS STEEL ROOF TOPS



The erection of the world's largest trussless steel roof — a clear span 120 feet wide and 260 feet long — over the new \$3/4 million Phoenix Coliseum under construction in Phoenix, Ariz., was announced by the Wonder Building Corporation of America, Chicago manufacturer of pre-engineered steel buildings.

Called the "Wonder Roof," it is the first in a new line of low-cost, long-span custom-engineered roof decks being marketed by the firm for convention halls, arenas, school gymnasiums, super-markets, hangars, and similar buildings where wide, unobstructed areas are required. Costs are said to be one-third less than conventional roof structures.

At the Phoenix Coliseum, the unique roof was completely erected in 7½ days. It will make possible an unobstructed view of the floor from any of 5,000 permanent seats.

The new Wonder Roof consists of curved 18-gauge galvanized corrugated steel sheets, two feet wide and from six to ten feet long, fastened together by nuts and bolts to form self-supporting arches. Its patented trussless design completely eliminated the need for pillars, posts, purlins, trusses or supports of any kind.

Although less than one sixteenth of an inch thick, the steel roof will withstand hurricane-force winds in excess of 113 miles per hour and

will support loads up to 42 pounds per square foot (equivalent to 5½ feet of snow).

The Phoenix Coliseum, the city's first such building, is designed as a multi-purpose structure for conventions, horse shows, concerts and athletic events.

Special provision has been made for ice shows, with pipes to circulate refrigerant built into the Coliseum's floor. A modern press box to provide complete radio and TV facilities is centered in the roof proper, thereby assuring unexcelled vision of all activities.

According to Andrew P. Tell, industrial developer in Phoenix and builder of the Coliseum, the Wonder Roof was chosen over other conventional types of wood and steel roofs because of its low cost, speed of erection and for the unobstructed view it will allow of the arena proper.

Tell said that the roof was completely erected in 450 man hours — an average of 7½ men working 8 hours per day for 7½ days.

He added that the height of the roof — 40 feet at the center — will increase the building's potential for circuses and similar attractions which require unusually high ceilings. For example, he cited an "Ice Capades" show booked for Christmas day, which features a Peter Pan aerial wire-flying act whose rigging problems will be greatly simplified.

because of the absence of usual roof supports.

Thermal insulation of the roof—the Coliseum is completely air-conditioned—as well as acoustical treatment and fire protection are provided by a  $\frac{1}{2}$ -inch layer of Zonolite Acoustical Plastic machine-sprayed directly to the metal underside following the pattern of the corrugated curved ceiling.

The Wonder Building firm, one of the country's largest manufacturers of pre-engineered trussless steel buildings for industrial and agricultural use, also announced that similar Wonder Roofs are currently being erected over new arenas in Jackson, Michigan; Wichita, Kansas; Rochester, N. Y.; and Colorado Springs, Colo.

Cost of the Wonder Roof is approximately 75c per square foot, exclusive of erection costs which average 15c per square foot. It is available in width sizes from 60 to 120 feet, in any length desired.

#### NEW FLOOR SYSTEM

A new precast structural concrete floor system with underfloor electrical distribution for office buildings was announced today by Anchor Concrete Products, Inc., Wabash Avenue at 2450 William Street, Buffalo.

This system, Conduflor, uses the hollow cells in Flexicore precast concrete floors as electric raceways and provides electrical floor outlet spacing as close as  $5\frac{1}{3}$ ". It also permits the installation of new outlets at any time in the future, at nearly any location on the floor.

In addition to providing electric availability, there are two principal advantages to the Conduflor system. The structural floor, being of concrete, requires no fireproofing, and its design permits clear spans of 20 feet without the use of intermediate beams.

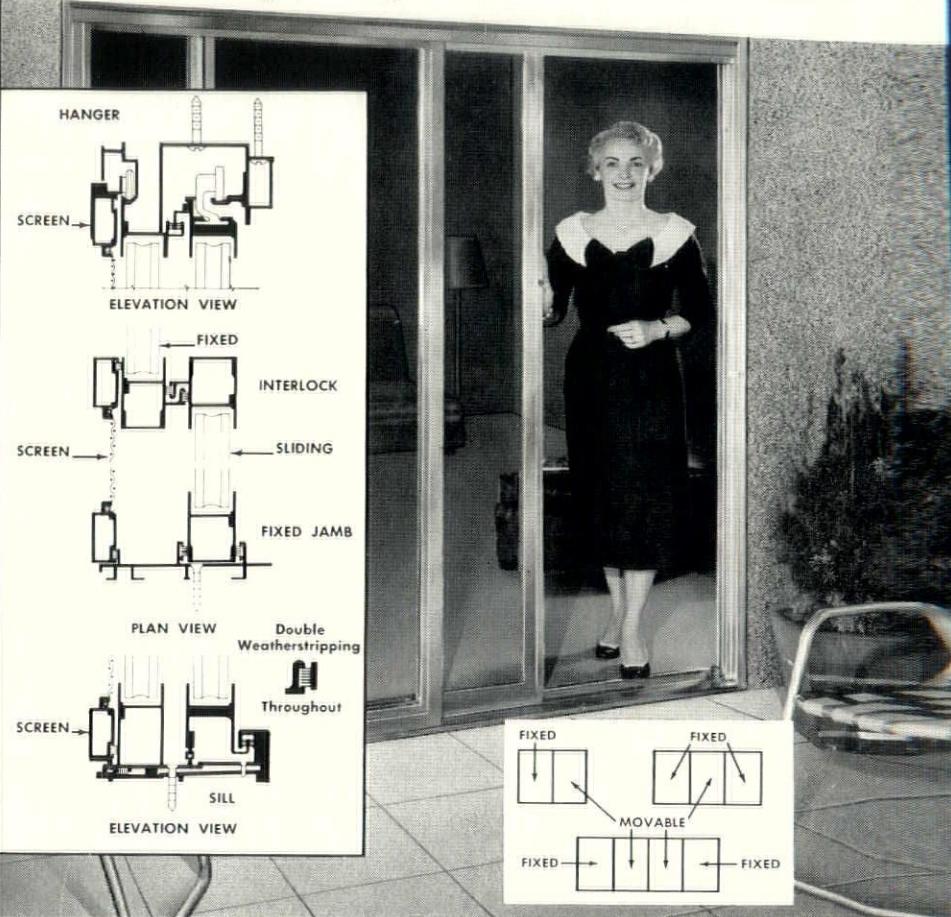
The floor is electrified by metal feeder ducts which are installed on top of the structural floor in a  $1\frac{1}{2}$ " concrete fill. The feeder ducts run at right angles to and feed the cells in the floor which are continuous from one end of the building to the other.

Conduflor has the advantages of economy and fast installation. The structural floor is precast and requires no on-the-job pours of structural concrete, permitting high-speed construction on structural steel, reinforced concrete frame or masonry bearing walls. Fittings for

(Continued on Page 65.)

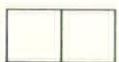
# New Fleetlite Sliding Glass Door

Designed Especially for Northern Weather

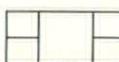


Now you can specify Fleetlite Sliding Glass Doors or attractive Picture Walls that block winter winds and western dust storms yet bring outdoor beauty into any room. Your clients will appreciate the extra benefits of this quality engineered trouble-free construction.

Doors slide silently and easily on overhead ball bearings. Screens glide on nylon rollers. Doors interlock with double mohair weather stripping on all four sides. Specially designed aluminum extrusions provide rigidity and maintain alignment. You can specify plate glass or insulating glass up to one inch thick.



Double Horizontal Sliding Windows lift out for easy cleaning. Mohair weatherstripped.



Picture window combination with double, double - hung flanking windows.



Jalousie Windows and Doors protect in any climate. Inside screens replaceable with storm sash.

Achieve design harmony with matching Fleetlite double hung and sliding windows.

Please send literature on:

- Sliding Glass Doors
- Horizontal Sliding Windows
- Double - Hung Windows
- Jalousie Windows and Doors

Name.....

Address.....

City..... State.....

**Fleetlite**  
AMERICA'S FINEST WINDOW®

FLEET OF AMERICA, INC., 2023 Walden Avenue, Buffalo 25, N.Y.

# *Thermopane* for Schools

As compared to single glass, heat loss through windows is reduced 44% by using *Thermopane* insulating glass that has a  $\frac{1}{4}$ -inch air space between its two panes. With a  $\frac{1}{2}$ -inch air space, heat loss is reduced 50%.

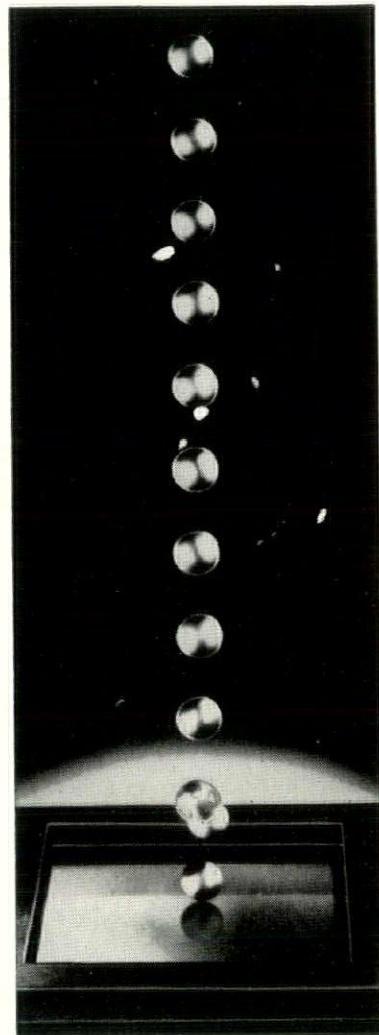
## Comparative heat transmission table

The over-all heat transmission coefficient U varies with the ranges of temperature at which it is determined. For most practical heat loss calculations, coefficient U is the value determined at 10 degrees outside temperature, 70 degrees inside temperature, 15 mph outside air velocity, 0.25 mph average inside air velocity.

| Kind of Glass | Glass Thickness                    | U Value         |     |     |
|---------------|------------------------------------|-----------------|-----|-----|
|               |                                    | Air Space       |     |     |
| None          | $\frac{1}{4}$ "                    | $\frac{1}{2}$ " |     |     |
| Single Glass  | $\frac{1}{8}$ "                    | 1.16            |     |     |
|               | $\frac{1}{4}$ "                    | 1.15            |     |     |
| Thermopane    | $\frac{1}{8}$ " or $\frac{1}{4}$ " |                 | .65 | .58 |

*Thermopane* also reduces sound transmission, a great virtue for schools in noisy localities. It reduces noise transmission over single glass by 44%.

For school glazing, *Thermopane* comprised of two panes of window glass is commonly used. It has the same insulating qualities as *Thermopane* made of higher priced plate glass but, of course, at some sacrifice in clarity of vision. *Thermopane* units in standard sizes are stocked by L·O·F Distributors for ready delivery. Their price is lower because they are made in volume due to their popularity. Many brands and types of metal and wood sash accommodate standard sizes of *Thermopane*.



● *Tuf-flex* is 3 to 5 times tougher than ordinary plate glass of the same thickness.

● A  $\frac{1}{2}$ -pound steel ball, dropped 10 feet on a piece of  $\frac{1}{4}$ "-thick *Tuf-flex* suspended in a wood frame, bounces right off the glass!

## **Tuf-flex for Schools**

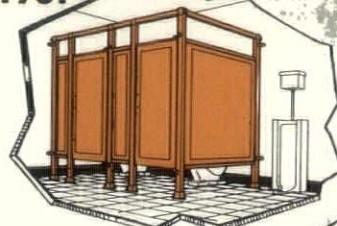
Vandalism and carelessness have made glass replacement a costly item for many schools. Many, too, have experienced accidental breakage in gymnasiums and in windows adjacent to playgrounds. A practical answer to this problem is glazing with *Tuf-flex*\* tempered plate glass. See test at right. \*®

For complete information, call your L·O·F Distributor or Dealer, or write to  
Dept. 1385, Libbey·Owens·Ford Glass Company, Toledo 3, Ohio.

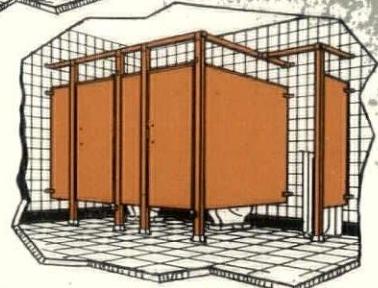


**LIBBEY·OWENS·FORD** *a Great Name in Glass*

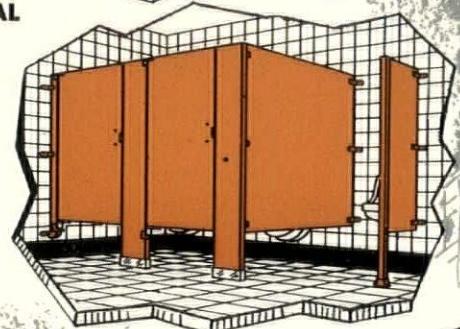
*25 Years of progress  
in toilet partitions*



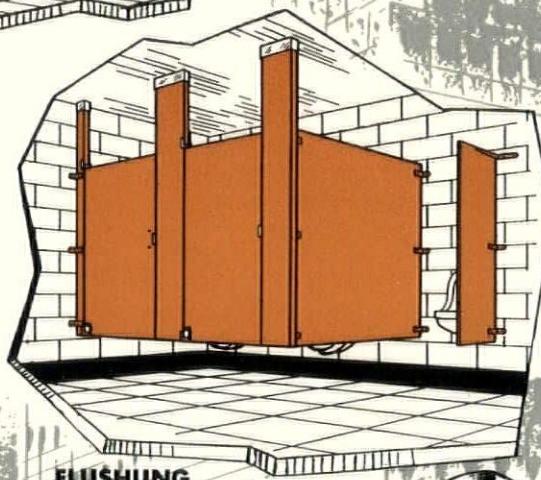
PANELMETAL



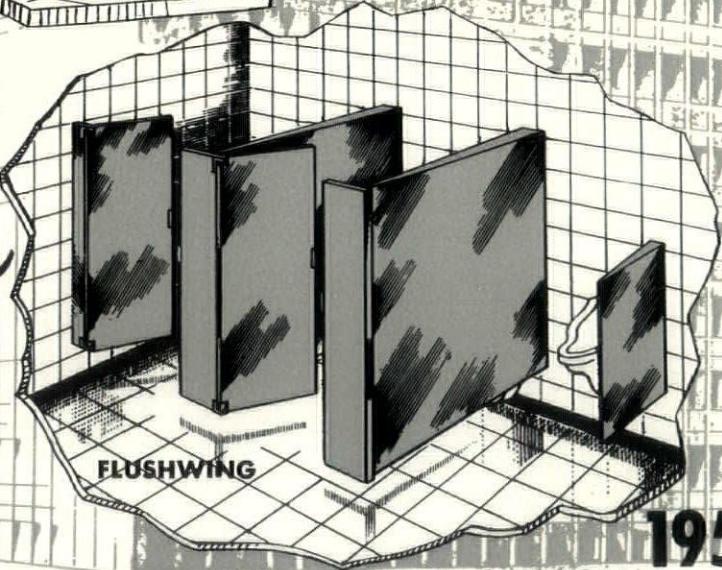
FLUSHMETAL



FLUSHART



FLUSHUNG



FLUSHWING

1956

**FLUSH-METAL PARTITION CORP.**

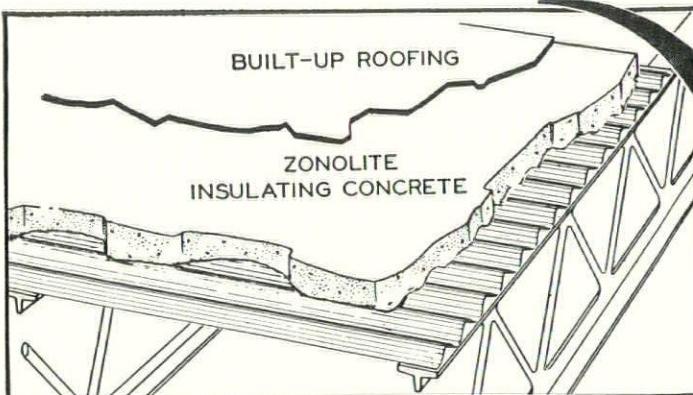
46-10 11th STREET

LONG ISLAND CITY 1, N.Y.

STILLWELL 4-3380

# *How Zonolite® Vermiculite CONCRETE Poured-In-Place Over Corrugated Metal*

## **NOW MAKES POSSIBLE LOW COST • LIGHTWEIGHT • FIRESAFE INSULATING ROOF DECKS!**



Zonolite concrete over corrugated metal...Diagram of roof deck just completed on huge shopper's mart in Bridgeville, Pennsylvania.

Architect: C. Melvin Frank, A.I.A., Columbus, Ohio



Pouring 300,000 sq. ft. of vermiculite concrete gets underway.



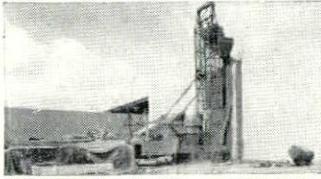
This type of joist used where span exceeded 25 ft.



Placing corrugated metal.



Side clips fasten corrugated metal to bar joists.



Mixermobile. Zonolite concrete being hoisted to roof.



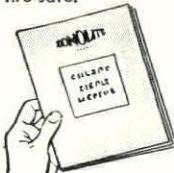
Easy pouring from concrete buggy. Bulb tee used for screed.



View on the W. T. Grant Co. store—  
3" Zonolite concrete over metal. Super  
fire-safe.



Construction Superintendent says this  
deck went on 20% faster.



### **Get This FREE BOOK**

*Just off the press.* A book you'll want for quick reference...gives details of many roof deck systems...including design data, section drawings, ratings, etc. No obligation. Mail coupon.

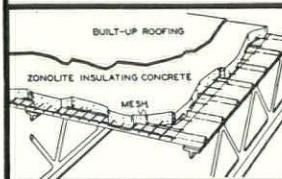
The construction industry has found the new Zonolite roof deck systems to be *superior to all others*. This shopper's mart in Pennsylvania (300,000 sq. ft. of Zonolite deck and marquees) went on 20% faster than another type deck used on part of the same job. Also, it was lighter weight and excelled in fire-safety, saving \$1,000 a year on insurance premiums. This Zonolite-over-corrugated-steel and the four other systems shown here are only a small portion of the combinations now made possible. Send for free booklet "Systems of Lightweight Construction."

## **ZONOLITE COMPANY**

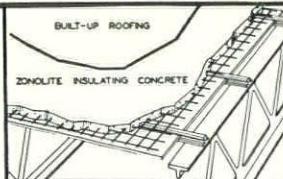
135 So. LaSalle St., Chicago 3, Illinois

### **These Lightweight Decks Excel in Fire-safety, Permanence!**

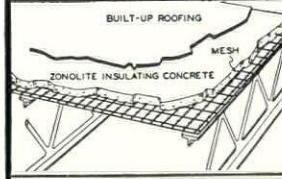
#### **And Zonolite Is Adaptable To Any Roof Deck Design**



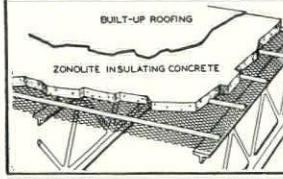
ZONOLITE concrete over metal deck.



ZONOLITE concrete over various  
form boards.



ZONOLITE concrete over paper-  
backed wire lath.



ZONOLITE concrete over ribbed  
metal lath.

### **MAIL COUPON TODAY**

Zonolite Company, Dept. ESA-96  
135 S. LaSalle Street, Chicago 3, Illinois  
Please send me your new booklet, G-101 "Systems  
of Lightweight Construction."

Name \_\_\_\_\_

Firm Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ Zone \_\_\_\_\_ State \_\_\_\_\_

Architect \_\_\_\_\_ Builder \_\_\_\_\_ Other \_\_\_\_\_

# LETTERS

New York State Architects' Association  
c/o Mr. Donald Q. Faragher  
Rochester 14, New York  
Dear Mr. Faragher:

I am addressing this letter to you as a Director of the New York State Architects' Association. I have been unable to ascertain an address for your State organization. It would be appreciated if you would refer this letter to your Directors and Officers at the next meeting of your Executive Committee.

I have been asked to write you respecting the practice of certain architects in stating in applications to the Commissioner of Education of the State of New York, submitted for the purpose of obtaining approval of school building plans and specifications, the estimated amount of legal fees for the project, without verifying the amount of such fee with the attorney representing the School District involved.

It would be presumptuous for attorneys to fix architect's fees on this or other types of work and by the same reasoning it is felt that architects are not qualified to evaluate legal fees. This practice may be the result of architects being required to meet deadlines on short notice, but whatever the reason, there appears to be no justification therefor.

A member of our Executive Committee will be glad to meet with your representative at a mutually convenient time and place to review this problem.

It is hoped that none of the comments set forth herein are unfair in any way to your Association or any of its members.

This letter is transmitted in the interest of a continuation of the excellent relations existing between architects and municipal attorneys and with the confidence that this relationship will continue.

Very truly yours,  
EMMETT J. SCHNEPP

To the Editor of the Empire State Architect:

I have been requested by the Board of Directors to comment on Mr. Schnepp's letter of January 20 to Mr. Faragher.

The application referred to is necessarily a joint effort of the School Board, the Superintendent of Schools or District Superintendent, and the Architect. Although the bulk of the data is the product of the architect's preliminary study, information on funds available, bonds, insurance, tax notes, and school district valuation must come from the school authorities.

The amount of the legal fees involves an agreement between the attorney and the School Board, depends on the extent of services to be required by the Board, and should, I think, logically be a part of the information furnished by the Board. It would not seem proper to me for an architect to ask another professional man, employed independently by the School Board, the amount of his fee.

Where a clear understanding exists between the School Board and an attorney, or where an estimate is readily available to the Board from the attorney, the proper procedure seems obvious.

Where an attorney has not been employed at the time the application is made, the best available source may be the past experience of the architect, although the estimating of legal fees is not an architectural problem. I have suggested to Mr. Schnepp that a better source would be some schedule or range of fees considered proper by the Bar Association and furnished to the School Boards through the New York State School Boards Association.

Very truly yours,  
HARRY E. RODMAN, Chairman  
Committee to Confer With Other Professions  
New York State Association of Architects

## Johns-Manville AQUADAM Built-Up Roofs

**assure longer roof wear at no extra cost!**

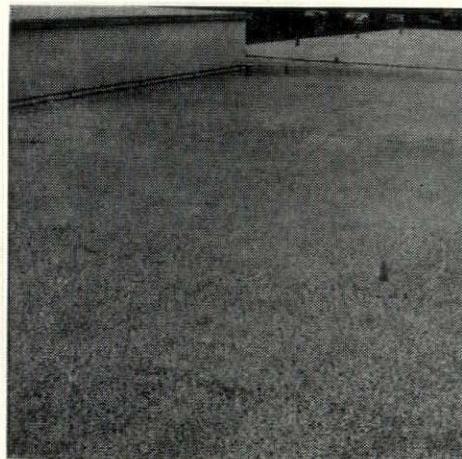
Johns-Manville Aquadam Built-Up Roofs, either slag or smooth surfaced, owe their superiority to Aquadam . . . the special bituminous asphalt cementing agent developed by Johns-Manville and employed in the application of roofing felts. Specifically designed to give the best possible protection to a building and its contents, Johns-Manville Aquadam Built-Up Roofs have these proven advantages.

- Maximum Weather Resistance
- Excellent Kettle Stability
- Greater Resistance to Cracking
- Greater Adhesion—Stronger Bond
- Improved Self-Healing Properties
- Exceptional Resistance to Water

For complete information about Aquadam Built-Up Roofs, see your approved Johns-Manville Contractor or write:



# Johns-Manville



Aquadam Built-Up Roofs are designed for roof decks with inclines from dead level to  $\frac{1}{2}$ " per foot.

22 East 40th Street,  
New York 16, New York



ARCHITECTS: Leon and Lionel Levy

## ...built with HANLEY Duramic Brick

The majestic Coliseum employs the color and texture of HANLEY Duramic Brick to couple elegance of appearance with functional design—in keeping with New York's new Columbus Circle.

The sharp contrasting elements of the towering vertical shaft and the horizontal plane of the ex-

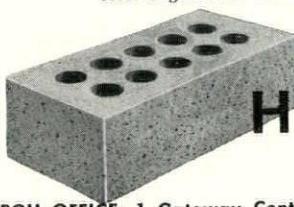
position area have been united through the tasteful blending of this superior brick.

The Coliseum's gleaming facade, of Hanley #625 Limestone Grey Duramic Brick, is complemented by the use of Hanley #770 Slate Grey Duramic Brick in the spandrels.

### HANLEY DURAMIC BRICK is available in these additional controlled shades:

|                                |                              |
|--------------------------------|------------------------------|
| 418 Iris Blue                  | 725 Pearl White—medium speck |
| 501 Pearl Grey                 | 729 Pearl White—heavy speck  |
| 525 Pearl Grey—medium speck    | 735 Pink—medium speck        |
| 623 Limestone Grey—light speck | 752 Ivory—medium speck       |
| 723 Pearl White—light speck    | 824 Oyster Grey—medium speck |

HANLEY GLAZED FACING TILE  
available in a wide selection of  
color-engineered shades.



## HANLEY COMPANY, Inc.

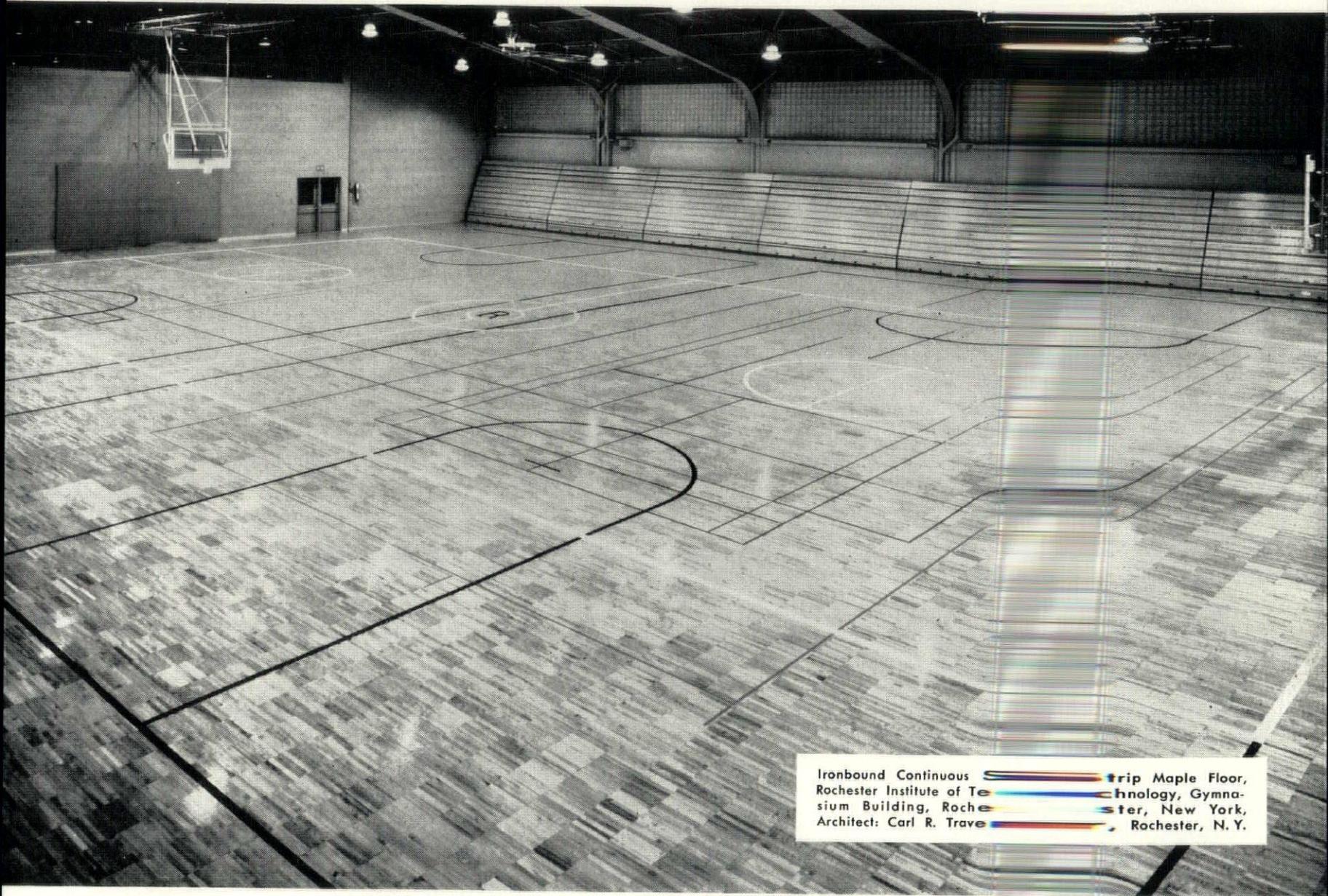
101 PARK AVENUE, NEW YORK 17, N. Y.

PITTSBURGH OFFICE: 1 Gateway Center

DETROIT OFFICE: 14976 Schaefer Highway

PLANTS: BRADFORD, PA., SUMMERVILLE, PA.

# APPEARANCE THAT'S AGELESS



Ironbound Continuous Strip Maple Floor,  
Rochester Institute of Technology, Gymnasium Building, Rochester, New York,  
Architect: Carl R. Trave Rochester, N.Y.

You're looking at a floor that carries its age well, keeps youthful after years of hard use, remains smoothly beautiful with only normal maintenance. Why? Because it's made that way, designed to stay young for generations, manufactured of tight-grained northern maple, laid in mastic over cork for controlled resiliency and installed with interlocking steel splines for permanent smoothness. It's an Ironbound® Continuous Strip® Maple Floor, the floor found in finest schools, public and industrial buildings, coast to coast.

*See you at Booth #6, New York State Architect's Convention, Lake Placid, N.Y.*

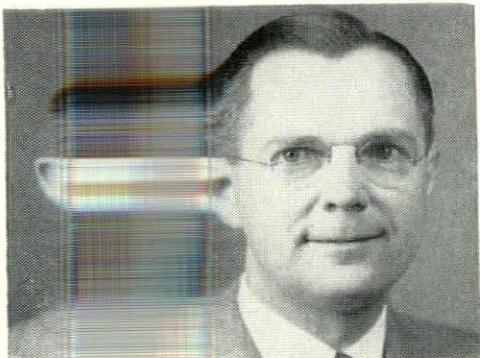
It's now available vacuum impregnated with Woodlife by the Dri-Vac process. This assures deep and uniform penetration of the wood. Dri-Vac treated flooring is moisture resistant, and gives positive protection against fungi, termite attack, and decay.

For full information on Ironbound floors and other maple floors including the popular free floating Perma-Cushion® floor system, contact the New York State installer nearest you.

## OFFICERS AND DIRECTORS

1956

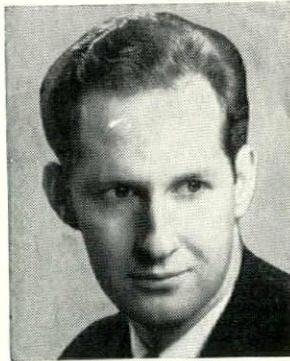
### NEW YORK STATE ASSOCIATION OF ARCHITECTS



Trevor W. Rogers  
*President*



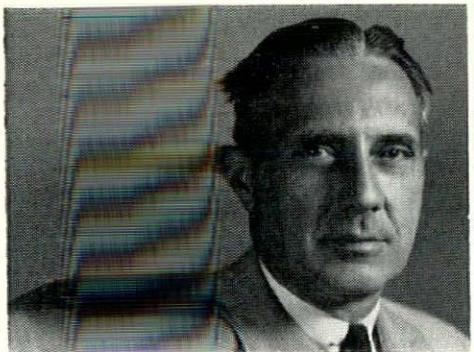
Harry M. Prince  
*1st Vice-President*



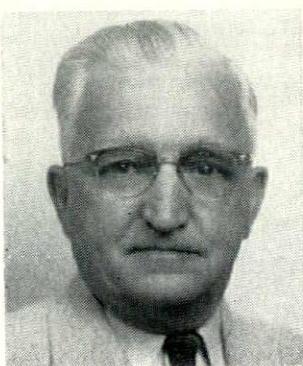
John W. Briggs  
*2nd Vice-President*



Frederick H. Voss  
*3rd Vice-President*



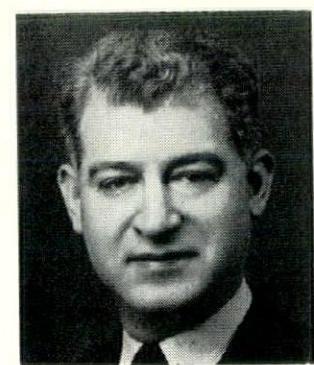
James Wm. Kidney  
*Past President*



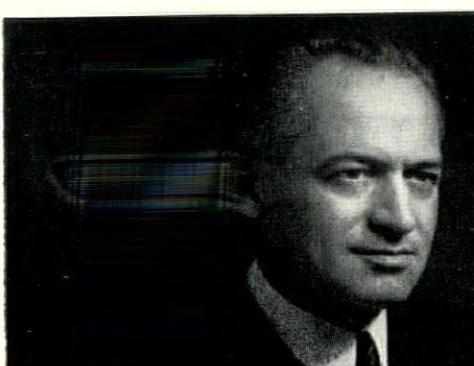
Charles R. Ellis  
*Past President*



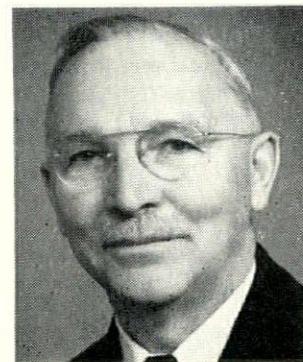
Martyn N. Weston  
*Treasurer*



Simeon Heller  
*Secretary*



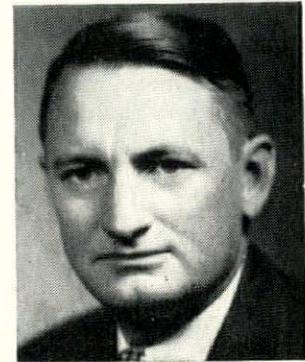
Matthew W. Del Caudie



C. Stotts Barrows



Henry V. Murphy



Donald Q. Faragher



Adolph Goldberg  
*Past President*



S. Elmer Chambers



J. Stanley Sharp



Harry W. McConnell



Carl W. Clark



Harry E. Rodman



Leonard A. Waasdorp



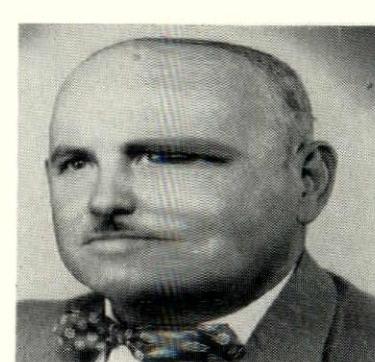
Roswell E. Pfohl



Michael S. Diamond



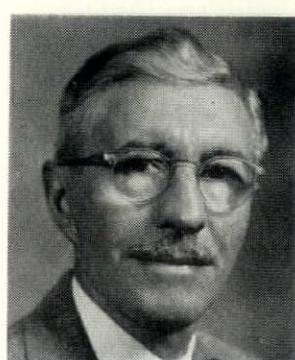
George J. Cavalieri



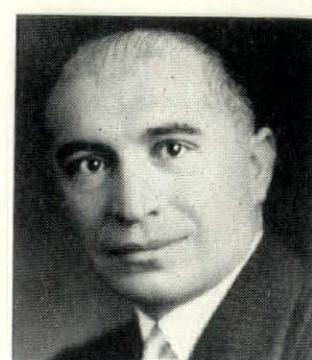
Frank Randazzo



Harry Silverman



Walter J. Brach



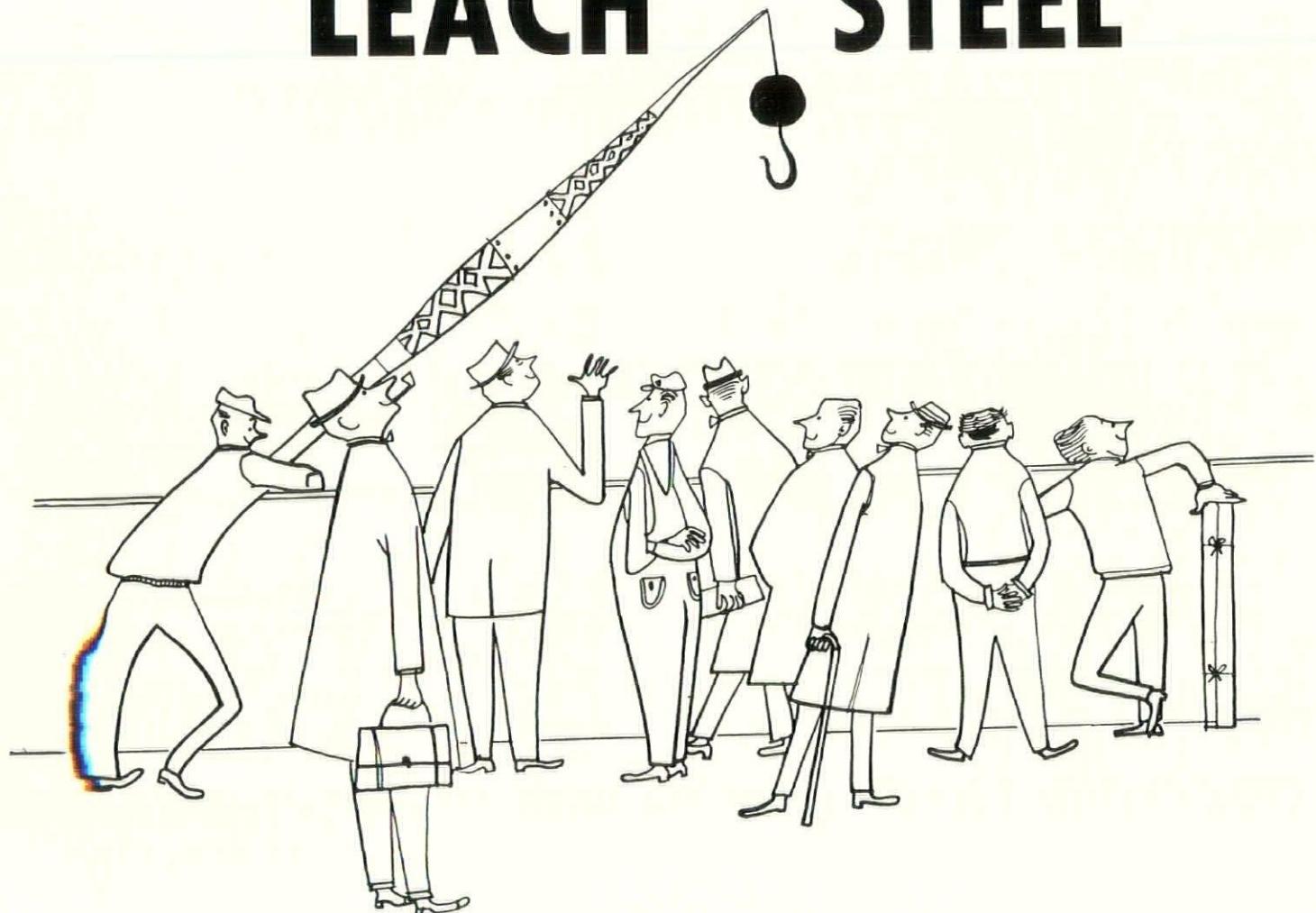
Michael A. Cardo



Guerino Salerni

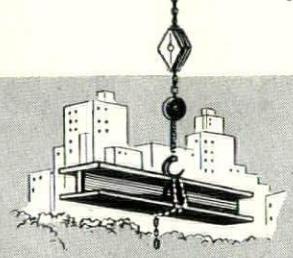
# Another Job Going up with...

## LEACH STEEL



Sidewalk "Supers" have plenty to see in these changing times . . . Old buildings making way for new . . . Underpasses . . . Overpasses . . . On practically every corner there's construction in sight. For long life and low maintenance cost, only steel meets today's building requirements and its uses are unlimited. Leach Steel has facilities for light and heavy steel fabrication and, in many cases, materials for fabrication are available from warehouse stocks.

Let Leach engineer estimators figure your next job.  
For prompt reliable service on steel . . . call Leach



**LEACH STEEL**  
CORPORATION  
80 STEEL STREET      ROCHESTER 6, NEW YORK      GLENWOOD 0152

## THE PRESIDENT'S MESSAGE

ONCE again we return to the beautiful Lake Placid Club for our annual Convention. May I, on behalf of the New York State Association of Architects, extend to the members, the exhibitors and the ladies a most cordial welcome.

We are very pleased to again have as our guests the Seniors of the six Architectural Schools of the State of New York. We hope their stay will be a pleasant one, and that they will receive much inspiration and knowledge which will be of great value to them in future years.

AS you will recall, one of the primary reasons for the organization of our Association was to combat adverse State Legislation in connection with the practice of Architecture. This is still one of the strong reasons for our existence.

Our Legislative Committee, under the direction of our Past President and A. I. A. Regional Director, Matthew W. Del Gaudio, has been successful in opposing legislation which would affect the practice of our profession. We owe him and his Sub-committee Chairmen and Committee Members a deep debt of gratitude. We also especially want to thank our one and only member in the Legislature, Alfred A. Lama, for the splendid help and guidance which he gave to our Committees.

IT has been said that in many instances, our State Organization has done more for the practicing Architect than any other single group. If this is the case, it is also because our many other committees have been active in the interest of our entire membership. What helps our membership helps our profession to be of ever-increasing service to society.

This year our Convention will be honored by the presence of our newly elected A. I. A. President, Leon Chatelain, Jr. To him we extend our congratulations and best wishes for a most successful year with the Institute. Also present will be newly elected President of The Royal Architectural Institute of Canada, Douglas E. Kertland. We extend our greetings to him and his membership from "across the border." Our own George Bain Cummings, immediate Past President of the Institute, will again grace our presence and continue to give us advice from his storehouse of past experience.

AS President, it has been a pleasure to serve my fellow architects. The "quarterback" is no stronger than his team mates. We have had a wonderful team this year. Your Directors, Past Presidents and other officers have cooperated to the fullest extent. I shall always be thrilled as well as amazed at the number of man-hours of time devoted by these men to our great organization. Keep up the good work!

TREVOR W. ROGERS, President  
*New York State Association of Architects*

# ROOM RESERVATION REQUEST

Meeting of

## NEW YORK STATE ASSOCIATION OF ARCHITECTS

at LAKE PLACID CLUB, Essex County, N. Y.

THURSDAY, OCTOBER 25th TO SATURDAY, OCTOBER 27th, 1956

Date ..... , 1956

Rates are on the American Plan, which includes meals; \$16 per day per person for twin bedded rooms, \$18 per day for single rooms; 15% is added to these rates to cover gratuities for bell service for check-in and check-out, including handling of hand baggage, chambermaid service and dining room service. Additional service is left to individual determination with respect to gratuities.

**Room assignment procedure:** Rooms will be assigned in order of receipt of application. Insofar as possible your preference will be observed. All room requests will be acknowledged by Lake Placid Club Reservation Manager.

Because of expected attendance at our meeting, it is anticipated that most of our members will be in the Clubhouse, but it may be necessary to use some of the nearby cottages for bedroom assignments, depending on the actual number attending. A limited number of living rooms (ensuite with bedrooms) are available in the Clubhouse at \$15 per day additional. If you wish a living room suite, please specify.

**Registration fee:** A registration fee of \$10 per member and \$5 per guest is to be made. Your check for this fee, which goes to help cover the general costs of the Convention, MUST BE SENT WITH YOUR ROOM APPLICATION. Make checks payable to CHARLES R. ELLIS, Treas., and mail to Lake Placid Club, Essex County, New York, with this application form.

All commercial exhibitors are asked to so state and list the name of their firm, as this registration fee will not be required of commercial exhibitors who rent a display booth.

Reserve ..... double, ..... single room (s) for ..... persons arriving by .....  
Mode of Travel

in time for ..... meal on October ..... to remain until  
Morning, Mid-Day, Evening Date

after ..... meal on October ..... Date  
Morning, Mid-Day, Evening

Member Name: Address: Chapter or

Member Name: Society

Guests:

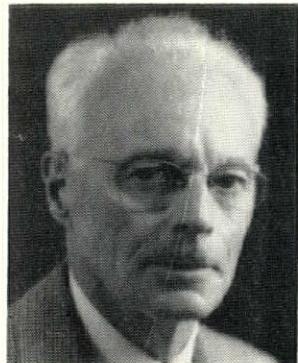
### IMPORTANT

Room reservations will be available beginning Monday, October 22nd and exhibit booths may be set up as early as Tuesday afternoon, October 23rd.

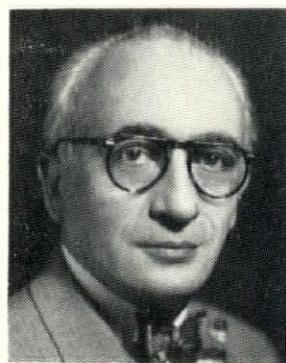
## THE 1956 CONVENTION COMMITTEE



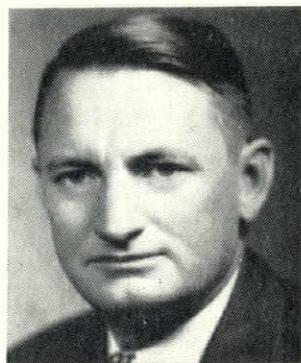
Matthew W. Del Gaudio  
*Convention Chairman*



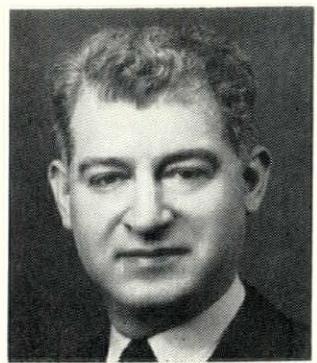
William G. Distin  
*Hospitality*



Adolph Goldberg  
*Co-Chairman*



Donald Q. Faragher  
*Co-Chairman*



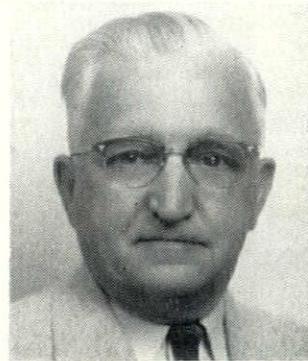
Simeon Heller  
*Registration*



Carl W. Clark  
*Architectural Exhibits*



G. Morton Wolfe  
*Commercial Exhibits*



Charles R. Ellis  
*Treasurer*



William Lukacs  
*Registration*

## NOTES



WHITEFACE MOUNTAIN

## ARCHITECTURAL EXHIBITS

### 1956 Convention

The Convention Committee, with the approval of the Board of Directors, wishes to make the architectural exhibit educational, inspirational, and attractive to those who will view it. To this end, the Committee will accept presentation drawings, sketches, blueprints, specifications, models, and any other exhibit a member wishes to send or bring. It is the aim of the Committee to exhibit materials which will be of interest to the profession and the public, with the thought in mind that our professional group can profit through a review of the work of its members and that the public may be better informed if they can know that the work of an architect's office has to do with many things other than the making of a picture.

All entries must be submitted by Registered Architects, having their principal offices in New York State. Eligibility is limited to members of the New York State Association of Architects.

Entries may be on structures contemplated, in process of construction or completed.

No advertising or mentions of awards shall be attached to entries.

Entries may be shipped "Express Prepaid" to: Carl W. Clark, Lake Placid Club, Lake Placid, New York,

and should be received by the Committee on or before October 24, 1956.

Exhibits may be mailed to Carl W. Clark, Lake Placid Club, Lake Placid, New York, or may be transported to the Club by the exhibitor if preferred by him.

#### Rules for Submission

1. There will be no entry fee.
2. There is no restriction on the size of mounts, nor on the number of mounts or space required or desired by an exhibitor. Wall space, easels, and tables will be available for displays.
3. It is the hope of the Committee that exhibitors will keep in mind the educational nature of the program and submit such materials as will be helpful to practicing architects and draftsmen in producing work of high caliber.

#### Insurance

Each entrant must take care of his own insurance and liability.

#### Entry Returns

Entries will be returned at the close of the Convention, Express collect.

# PROGRAM

## 1956 Convention—Lake Placid Club, Lake Placid, New York

### WEDNESDAY, OCTOBER 24th, 1956

2:30 P.M.

REGISTRATION — Club, Post Office Lobby

6:30 P.M.

GROUP DINNERS

### THURSDAY OCTOBER 25th, 1956

9:00 A.M.

REGISTRATION — Club, Post Office Lobby

9:30 A.M.

OPENING SESSION — Agora Auditorium

Trevor W. Rogers, President New York State Association  
of Architects, presiding  
Report of Board  
Report of Secretary  
Report of Treasurer  
Report of Committees  
Report of Nominating Committee

12:00 Noon

OPENING OF COMMERCIAL EXHIBITS

G. Morton Wolfe, presiding

12:15 P.M.

OPENING OF ARCHITECTURAL EXHIBITS

Carl W. Clark, presiding

1:30 P.M.

LUNCHEON — Forest East Suites

*Toastmaster:* To Be Announced

*Invocation*

*Welcome:* Mayor of Lake Placid

*Response:* President Trevor W. Rogers

*Introductions*

*Speakers:*

George Bain Cummings, F.A.I.A., Past President,  
American Institute of Architects  
Admiral William S. Maxwell, Chairman,  
Board of Standards and Appeals

3:00 P.M.

LECTURES — Location to be Announced

Adolph Goldberg, Past President,

New York State Association of Architects, presiding

RECREATIONAL ACTIVITIES

PRESIDENT'S RECEPTION — Agora Auditorium

BUFFET DINNER — Forest East Suites

ENTERTAINMENT, MUSIC AND DANCING — Agora Auditorium

### FRIDAY, OCTOBER 26th, 1956

9:30 A.M.

SECOND SESSION — Agora Auditorium

President Trevor W. Rogers presiding

Reports

Election of Officers

1:00 P.M.

LUNCHEON — Forest East Suites

*Toastmaster:* To be Announced

*Invocations*

*Introductions*

*Speaker:* Leon Chatelain, Jr., President, American Institute of Architects

2:00 P.M.

MEETING NEW YORK REGION A. I. A. — Location to be Announced

Matthew W. Del Gaudio, Regional Director, presiding

|           |   |
|-----------|---|
| 3:00 P.M. | SEMINARS — Agora Auditorium<br>Donald Q. Faragher, Past President, New York State Association of Architects, presiding  |
| 4:30 P.M. | VISIT EXHIBITS  |
| 7:30 P.M. | ANNUAL BANQUET — Forest East Suites<br><i>Toastmaster:</i> To be Announced<br><i>Invocation</i><br><i>Introductions</i><br><i>Speaker:</i> Fred A. Palmer, Sales Consultant, Columbus, Ohio |

## SATURDAY, OCTOBER 27th, 1956

|           |   |
|-----------|---|
| 9:30 A.M. | FINAL SESSION — Agora Auditorium<br>President Trevor W. Rogers presiding<br>Reports<br>Report of Resolutions Committee<br>Resolutions and Announcements   |
| 1:00 P.M. | LUNCHEON — Forest East Suites<br><i>Toastmaster:</i> Matthew W. Del Gaudio, F.A.I.A., Past President, New York State Association of Architects<br><i>Introductions</i><br><i>Installation of Officers</i> |
| 2:00 P.M. | AWARDS — Forest East Suites<br>G. Morton Wolfe, presiding   |
| 2:30 P.M. | MEETING — Agora Auditorium<br>New Officers and Directors  |

## Ladies' Program

### WEDNESDAY, OCTOBER 24th, 1956

|           |  |
|-----------|--|
| 2:30 P.M. | REGISTRATION — Club, Post Office Lobby |
| 6:30 P.M. | GROUP DINNERS                          |

### THURSDAY OCTOBER 25th, 1956

|           |  |
|-----------|--|
| 9:00 A.M. | REGISTRATION — Club, Post Office Lobby                             |
| 1:30 P.M. | LUNCHEON — Forest Dining Room<br>Mrs. William G. Distin, presiding |
| 3:00 P.M. | VISIT ARCHITECTURAL AND COMMERCIAL EXHIBITS                        |
| 6:30 P.M. | PRESIDENT'S RECEPTION — Agora Auditorium                           |
| 7:30 P.M. | BUFFET DINNER — Forest East Suites                                 |
| 9:00 P.M. | ENTERTAINMENT, MUSIC AND DANCING — Agora Auditorium                |

### FRIDAY, OCTOBER 26th, 1956

|           |  |
|-----------|--|
| 9:30 A.M. | SHOPPING   |
| 1:00 P.M. | LUNCHEON — Forest East Suites (jointly)          |
| 3:00 P.M. | RECREATIONAL ACTIVITIES<br>Planned Entertainment |
| 4:30 P.M. | VISIT EXHIBITS                                   |
| 7:30 P.M. | ANNUAL BANQUET — Forest East Suites              |

### SATURDAY, OCTOBER 27th, 1956

|           |   |
|-----------|---|
| 9:30 A.M. | SHOPPING, SIGHTSEEING, PACKING          |
| 1:00 P.M. | LUNCHEON — Forest East Suites (jointly) |
| 2:00 P.M. | AWARDS — Forest East Suites             |

# COMMERCIAL EXHIBITORS

Representatives and Products to be Exhibited

Annual Convention—October 25-26-27, 1956

New York State Association of Architects

Lake Placid Club, Essex County, N. Y.

**Booths**

- 1 & 2   **COLLUM ACOUSTICAL CO., INC.**, Syracuse, N. Y.  
*Celotex Acoustical Products*  
*Unit Panel Partitions Mfgd. by White Partitions, Inc.*  
*U. S. Plywood Wall Coverings*  
 L. S. Ayars, Mrs. Nancy Groshek, Burt W. Manning
- 3   **DUSING & HUNT, INC.**, Buffalo, N. Y.  
*Pyrodors*  
 W. R. C. Cocke, Jr., Royce Day, Leon F. Dusing
- 4 & 8   **INFRA INSULATION, INC.**, New York, N. Y.  
*(Insulation)*  
*Infra Insulation*  
 Stanley Blumenstein, John McGill, Alexander Schwartz, J. R. Schwartz
- 5   **ZONOLITE COMPANY**, Dearborn, Mich.  
*Zonolite Acoustical Plastic*  
*Zonolite Plaster Aggregate*  
*Zonolite Concrete Aggregate*  
*Zonolite Roof Deck Systems*  
*Zonatile*  
 Ken Chalker, Jack Clough, Al Cossitt, Bill Jones, Don O'Leary, Don Rapp, Bob Rauh, Art Smith
- 6   **ROBBINS FLOORING CO., INC.**, Reed City, Mich.  
**STORM FLOORING CO., INC.**, New York, N. Y.  
**YAEGER FLOOR COMPANY, INC.**, Rochester, N. Y.  
*Ironbound Continuous Maple Strip*  
*Perma Cushion Maple Flooring*  
 Carl Abendroth, Joseph D. Alter, Edward Wilson, Joseph A. Yaeger
- 7   **COOPER DECORATION CO., INC.**, Syracuse, N. Y.  
*Complete Stage Equipment Service*  
*Window Draperies and Tracks*  
*Thru-Vu Vertical Blinds*  
 Marshall Cooper, Allan S. Woodle
- 9   **HOLCOMB & HOKE MANUFACTURING CO., INC.**, Indianapolis, Ind.  
*FOLDOOR Fabric-covered Folding Doors*  
 S. J. McCarthy, C. A. Potts
- 10   **ELECTRA PROTECTION CO., INC.**, Albany, N. Y.  
*Lightning Protection Equipment*  
*Steeplejack Division devoted to repairs to High Structures, such as Churches, Factory Buildings, etc.*  
 Howard L. Hutchins, William Jurney
- 11   **FINGER LAKES STONE CO., INC.**, Ithaca, N. Y.  
*LENROC Seam-Face Bonded Ashlar*  
*LEMROC Sawed-Bed Ashlar*  
*LENROC Dimension Bluestone*  
*LENROC Rock Face Stone*  
*LENROC Flagstone*  
*LENROC Panelwall*  
 Ormsby Dolph, Phillip Hodes, Robert M. Mueller

**Booths**

- 12 & 13   **AMERICAN-OLEAN TILE COMPANY**, Lansdale, Penna.  
*Ceramic Wall and Floor Tile*  
 Donald H. Benedict, Arthur David Bennett, Walter B. Cherry, Joseph J. Kufta, James D. Maclay, Harold S. McElroy, Lewis S. Phillips, Donald J. Sutherland
- 14   **PORTLAND CEMENT ASSOCIATION**, New York, N. Y.  
*Portland Cement*  
 F. J. Dorsey, M. L. Holzer, J. B. McConville, P. Powers, R. A. Sargent, N. I. Wray, A. J. Yeats
- 15   **UNITED STATES PLYWOOD CORPORATION**, New York, N. Y.  
*Weldwood Plywood*  
*Novoply*  
*Plankweld*  
*Duraply*  
*Micarta Plastic Laminate*  
*Stay-Strate Doors*  
 Clinton Andavall, James Fitzpatrick, Gordon Jardine, John Jinishian
- 16   **NATIONAL CHEMICAL & MANUFACTURING COMPANY**, Chicago, Ill.  
*Satin Luminall*  
*Outside Luminall*  
*Luminall Floor Paint*  
*Luminall Satin Enamel*  
 Joseph Gordon
- 17   **UNIT STRUCTURES, INC.**, Peshtigo, Wisc.  
**ROOF STRUCTURES, INC.**, New York, N. Y.  
*Glued Laminated Wood Roof Structures*  
*Double Tongue & Groove Timber Roof Decking (Unit Deck)*  
 Jerome F. Walker, Joseph Boyer
- 18   **VICTORY METAL MANUFACTURING CORP.**, Plymouth Meeting, Pa.  
*Commercial Type Reach-In Refrigerators*  
*Freezers*  
*Dual Temp Refrigerators*  
*Dough Retarder or Proofing Boxes*  
 J. Des Phelan, Jack Pressburg
- 19   **KESKO PRODUCTS, INC.**, Bristol, Indiana  
*Kesko Thermo-Sash*  
*Double Hung Reversible Window Unit*  
 Donald M. Alexander, Charles Booth, Ward P. Kessler, Harold E. Maloney

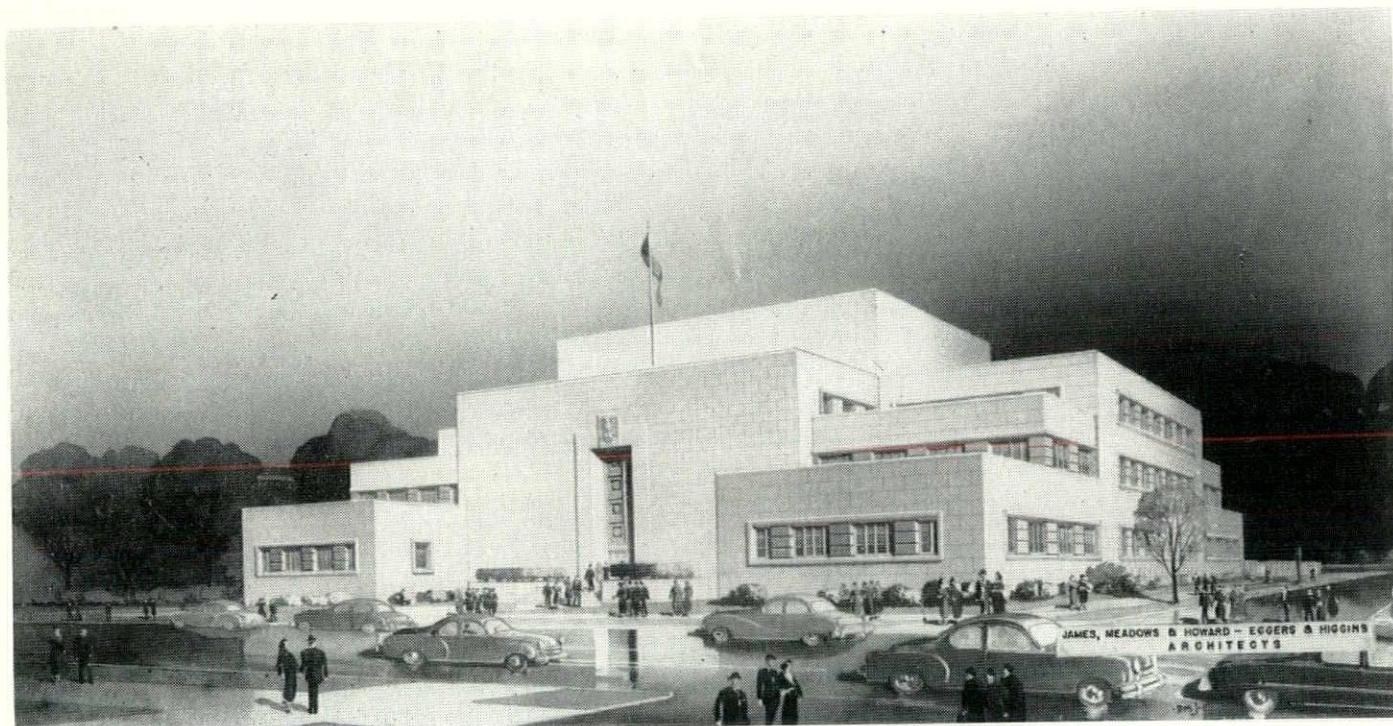
**Booths**

- 20 HORN DIVISION, BRUNSWICK-BALKE-COLLENDER COMPANY, Marian, Virginia  
*Folding Partitions*  
*Folding Gym Seats*  
*Folding Stages*  
*Folding Wardrobes*  
B. R. Johnson, A. F. Loucks, M. Malcom MacGregor, E. W. Maurer, A. O. Stilwell, D. E. Warner
- 21 HARDWARE SALES CO., INC., Darien, Conn.  
*Arcadia Metal Products*  
Webster Barth, Charles Dice, D. P. Johnson, Earnest Maurer, Henry Maury, Henry North, George E. Taylor
- 22 WOOD, WOOD & WOOD, INC., Farmingdale, L. I., N. Y.  
*Gate City Motorized Aluminum Awning Windows*  
*Gate City New TYPE H Wood Awning Window*  
Edward Gal, Daniel S. Wood, Jr.
- 23 AMERICAN SEATING COMPANY, Syracuse, N. Y.  
*Auditorium Chairs*  
*Church Furniture*  
*School Furniture & Equipment*  
*Folding Chairs*  
D. C. Grimm, E. H. Heneveld, W. R. Sonke, N. E. Wietig
- 24 CONCORD LUMBER COMPANY, INC., Albany, N. Y.  
*Bilt-Well Woodwork*  
*IPIK Solid Core Doors*  
Stanley Bradley, George A. Eckhardt, Myron Levy
- 25 & 26 WM. SUMMERHAYS SONS CORPORATION, Rochester, N. Y.  
**STYRO SALES CORPORATION, Rochester, N. Y.**  
*Styrofoam (Product of Dow Chemical Co.)*  
Jack Edelman, Allan H. Frazer, Robert L. Summerhays, Archie Zacks
- 27 TWINSBURG-MILLER CORPORATION, Twinsburg, Ohio  
*"GLASFAB" System of Membrane Waterproofing*  
Hall Knoerle, Jim Piccione
- 28 FOSTER REFRIGERATOR CORPORATION, Hudson, N. Y.  
*HLR 8-17-U Two Temp Refrigerator*  
*M 16-DF-U Drop Front Milk Refrigerator*  
*Representative Models of Our Line of Over 200 Welded All-Aluminum Refrigerators & Freezers*  
W. J. Whalen
- 29 & 30 WOODCO CORPORATION, North Bergen, N. J.  
*WOODCO R.O.W. DeLuxe Removable Wood Window*  
*WOODCO Wood Casement Window*  
*WOODCO "Slider" (Horizontal Sliding) Wood Window*  
*WOODCO E-Zee Loc Wood Awning Window*  
*WOODCO E-Z Hung All-Aluminum Combination Storm Sash & Screen (Self-Storing)*  
*WOODCO Sectional Bow Bay Window*  
Walter Bill, Wilbur A. Gerhold, Mark G. Gilbert, Jack Kieley, George McVie
- Booths
- 31-32-33 LCN CLOSERS, INC., Princeton, Ill.  
**SARGENT & GREENLEAF, Rochester, N. Y.**  
*Sargent & Greenleaf Panic Devices & Door Controls*  
*LCN Door Closers*  
A. D. Dugan, Jr., Frank Gallagher, W. J. Hodge, Russ Landon, Carroll Lowe, Ed Neylon
- 34 THE MOSAIC TILE COMPANY, New York, N. Y.  
*Mosaic Complete Line of Ceramic Wall & Floor Tile*  
Raymond E. Gear, W. S. Jordan, W. E. Kelly
- 35 INDEPENDENT NAIL & PACKING COMPANY, Bridgewater, Mass.  
*The STRONGHOLD Line of Special Nails*  
*Stronghold Nails*  
*Screw-Tite Nails*  
Leo Stone, Arthur S. Tisch
- 36 ARMENTO METAL ARTS COMPANY, Buffalo, N. Y.  
*Architectural Metalwork - Altar Rails, Crosses, Grille, etc.*  
*Bronze Tablets*  
*Cast Metal Letters*  
*Ceramics (by Design-Technics)*  
Lewis Armento
- 37 MINWAX COMPANY, INC., New York, N. Y.  
*MINWAX Wood Finishes*  
*MINWAX Waxes*  
*MINWAX Weathercap*  
*MINWAX Caulking Compound*  
R. W. Harrison, Jr., D. H. Henderson
- 38 & 39 BINGHAMTON BRICK COMPANY, INC., Binghamton, N. Y.  
*Clay Products*  
*Glazed Brick*  
Jerry T. Allen, Carl A. Austin, Charles E. Austin, Clarence P. Austin, J. Winfred Estus, Larry Fenner, C. T. Woodworth
- 40 AMERICAN MAT CORPORATION, Toledo, Ohio  
*Tweed Tile*  
*Various Types of Rubber Matting including Neoprene Rubber & Vinyl*  
James Eksten, George Kinney, Harold Potter, Robert Russell
- 41 DUR-O-WAL PRODUCTS, INC., Syracuse, N. Y.  
*DUR-O-WAL (Masonry Wall Reinforcing)*  
John Ianuzzi, Robert Yenny
- 42 NEW YORK STATE CONCRETE MASONRY ASSOCIATION, INC.  
*Latest Developments in Concrete Masonry Units*  
Robert Abbey, Kenneth Dagostino, John Daly, Robert T. Dempsey, Frank Dorsey, R. G. Hardy, William Homer, K. C. Oelfke, Henry C. Quaritius, Jr., Charles Stanton, Jr., Lee Taylor
- 43 ANCHOR CONCRETE PRODUCTS, INC., Buffalo, N. Y.  
*(FEATURE) Flexicore-Conduflor System of Electrical Flexibility in Floors*  
*Autoclaved "Shadow Blocks" for Patterns in Concrete Masonry*  
Victor F. Lawson, Harvey A. Lee, Frederick W. Reinhold, Dan L. Sutter

# BUFFALO'S NEWEST BUSINESS BUILDING

## Latest Word in Reserve Bank Design

JAMES, MEADOWS & HOWARD — EGGERS & HIGGINS,  
*Architects*



The new home of the Buffalo Branch of the Federal Reserve Bank of New York, to be completed early in 1957 will be one of the most imposing structures in the city. Its lines are simple, even severe. There is no ornamentation except the massive eagle cartouche above the entrance carved from a 9-ton block of Mount Airy Granite. The impressive effect of the building is achieved by carefully proportioned elements of mass and fenestration.

The exterior walls are of sand-rubbed Alabama Limestone blocks 4'-2" long x 2'-3" high. Stone piers between the windows are of Indiana Limestone which with weathering, will offer a subtle color relief. The entrance steps, platform and cheek walls are of polished Mount Airy Granite which is continued in the trim around the entrance and in a base around the building. Heavy aluminum sliding security doors at the entrance are of monumental design. Marble walls, floors and base are used in the entrance vestibule, foyer and main Lobby.

Walls through most of the working area will have permanent type plastic wainscots with fabric wall covering materials above. Steel wainscoting is used where-

ever there is the likelihood of damage by loaded trucks. Stairways will have pre-cast terrazzo treads and poured-in-place terrazzo landings.

Floors in all working areas will be of heavy vinyl tile, chosen for its resilient non-skid surface, easy maintenance, long life and easy replacement of units when partitions are moved.

Extreme flexibility of office layout is provided by the use of movable partitions of insulated, pre-fabricated, factory-finished steel. Where required, upper panels will be glazed. "Q" floor construction permits easy relocation of electrical outlets when partitions are moved or new desks or equipment installed.

Ceilings throughout the building, where sound control is desirable will be chiefly of suspended perforated metal backed by fireproof sound absorbing material. In the coin counting room and elsewhere where the noise level is high the walls, also, will be acoustically treated.

Overhead fluorescent lighting will be supplied in all office areas and incandescent dome lights in basement work rooms and storage spaces. Two separate air-conditioning systems are provided, one for the

building proper and the other, with special security features, for the vaults.

Two passenger elevators and a service elevator, all automatic, will run from basement to third floor and there is also a special coin lift from basement to first floor. Space for a third passenger elevator has been provided.

To make the usual lunch hour exodus unnecessary, complete cafeteria facilities are provided on the third floor. Food of unexcelled quality will be served at prices below actual cost, the loss on this operation being absorbed as part of over-all operating expense. Recreation areas on the upper roof decks serve the needs of those who like a relaxing "breath of fresh air" after lunch although, as a matter of fact, the outside air is neither so fresh nor so pure as the conditioned air in the building. Lounge areas, recreation rooms and hospital facilities are provided in the plans and there are even guest rooms for V.I.P.'s in the banking world whose business may require an overnight stay.

Heating, air-conditioning and other heat and power requirements of the building are met by two combination oil- and/or gas-fired boilers. Gas alone will be used during the summer months. While there is not now a sufficient supply of gas to handle maximum winter fuel requirements, the supply piping is sized adequately to serve when more gas is available. Meanwhile there are storage tanks for two week's supply of oil at peak load.

The generous site allows for practically doubling the floor space without adding to the height of the building. The present structure will provide for a fifty percent increase in the working force of the present bank and there is some additional space which may be rented to selected tenants.

#### *Security the first consideration*

Naturally, security for millions upon millions of dollars in currency and negotiable paper is the prime design requisite for any Federal Reserve Bank. So, in planning the new building the architects, James, Meadows and Howard of Buffalo and Eggers & Higgins of New York City, were permitted to draw upon accumulated experience in the design and operation of Federal Reserve units throughout the country.

At the heart of the Buffalo bank is an enormous vault, two stories high with a working area of 75' x 40' at each level. The vault, in simplest terms, is a great box with top, bottom and sides of concrete 30" thick and an intermediate slab 24" thick, all reinforced with a maze of steel rods and heavy gauge expanded metal, the reinforcement alone weighing 800 tons! This whole structure is supported two feet above the basement floor by reinforced concrete cross-walls spaced 6'-3" on centers. The lighted crawl space permits easy inspection of the under side of the vault and also insures that even in the remote possibility of an earthquake or bomb explosion cracking the heavy basement walls, there would be ample opportunity to pump out any seepage before the walls of the vault proper could be damped.

Seepage was one problem that had to be solved at the outset. Test drillings showed about thirty feet of quicksand subsoil over hard limestone bed rock at an average depth of 46 feet. Driving the steel jacketed cast-in-place concrete piles was not an unusual problem, but the quicksand subsoil with the water level 8 to 10 feet below grade made a continuous pumping operation necessary to keep hydrostatic pressure from lifting the basement floor slab off the piles. To keep moisture from entering the building the sub-basement

concrete mud slab was covered with a four-ply membrane type waterproofing which was also continued up the outside of the basement walls to grade. Not until the basement walls were poured and the weight of a considerable part of the superstructure added was it deemed wise to discontinue the pumping operation.

The frame of the building is of welded structural steel with all columns, beams and girders encased in concrete. All interior columns also received the extra fire protection of vermiculite gypsum plaster. For greater lateral rigidity the steel "Q"-floor channels were welded to the girders. Roof decks of reinforced concrete were covered with two layers of rigid insulation board, over which 20-year bond built-up roofing was applied. On all roof deck areas where traffic will be permitted, pre-cast concrete slabs were laid over the finished roof.

The heavy aluminum casement-type windows of double wall insulating glass are secured in place with locks to prevent opening except for cleaning, which can be done from the inside. Since the entire building is air-conditioned there is no need to open the windows for any other purpose. Nevertheless in security areas, they are protected inside by stainless steel screening.

The security court where armored cars load and unload is at street level with a highway type concrete pavement slab thick enough to carry the traffic of 20-ton trucks. Cars enter the court under heavy roll-type overhead steel doors. Not until the doors have been closed and locked by remote control do the crews leave the armored cars and only after they have been identified are the doors to the loading docks opened. The entire security court is under constant watch by guards stationed behind armor plate and bullet-proof glass. The bank garage which opens to the court is also under strict security control.

All areas in the building where currency and securities are handled are likewise under constant watch. Sliding doors to all restricted areas and all exit doors are under remote control by the guards. Not a single security door can be operated without registering on an electronic control panel in the brain center of the building. A moving web record gives permanent and incontrovertible evidence as to which doors are opened, when and for how long.

Fire protection consists of a series of hose cabinets at convenient locations where hose and portable chemical fire extinguishers are ready for instant use. A penthouse storage tank kept filled by a pump within the building provides pressure at all hose connections. In the event of a fire, the tank can be pumped full from a connection outside the building. Sprinkler systems are provided in the paper baling room, paper storage and supply rooms.

Since not only the electronic nervous system of the bank, but all mechanical equipment, from typewriters to air-conditioning equipment and all lights depends upon a constant supply of electrical energy, no disruption of service can be permitted. Should a power failure occur, a storage battery system would take over instantly — *but instantly* — while the standby diesel-operated electrical generators whirl into action, automatically, of course.

Because of the special security construction and equipment required, this Federal Reserve Bank Building is probably one of the most costly buildings in the Buffalo area either on a floor area or cubic foot basis. But measured against the protection it affords it adds up to a mighty good investment.

# AN INTERNATIONAL OIL COMPANY MOVES TO WESTCHESTER

EGGERS & HIGGINS, Architects



High on a hill overlooking Westchester Avenue, Standard-Vacuum Oil Company's new headquarters building in White Plains is a far cry from the canyons of lower Manhattan where the company lived since its inception at 26 Broadway in 1933.

The White Plains area became one of the important centers of the international petroleum industry recently as Standard-Vacuum Oil Company completed the transfer of some 700 employees from its headquarters office in New York City to the company's new building at 1000 Westchester Avenue.

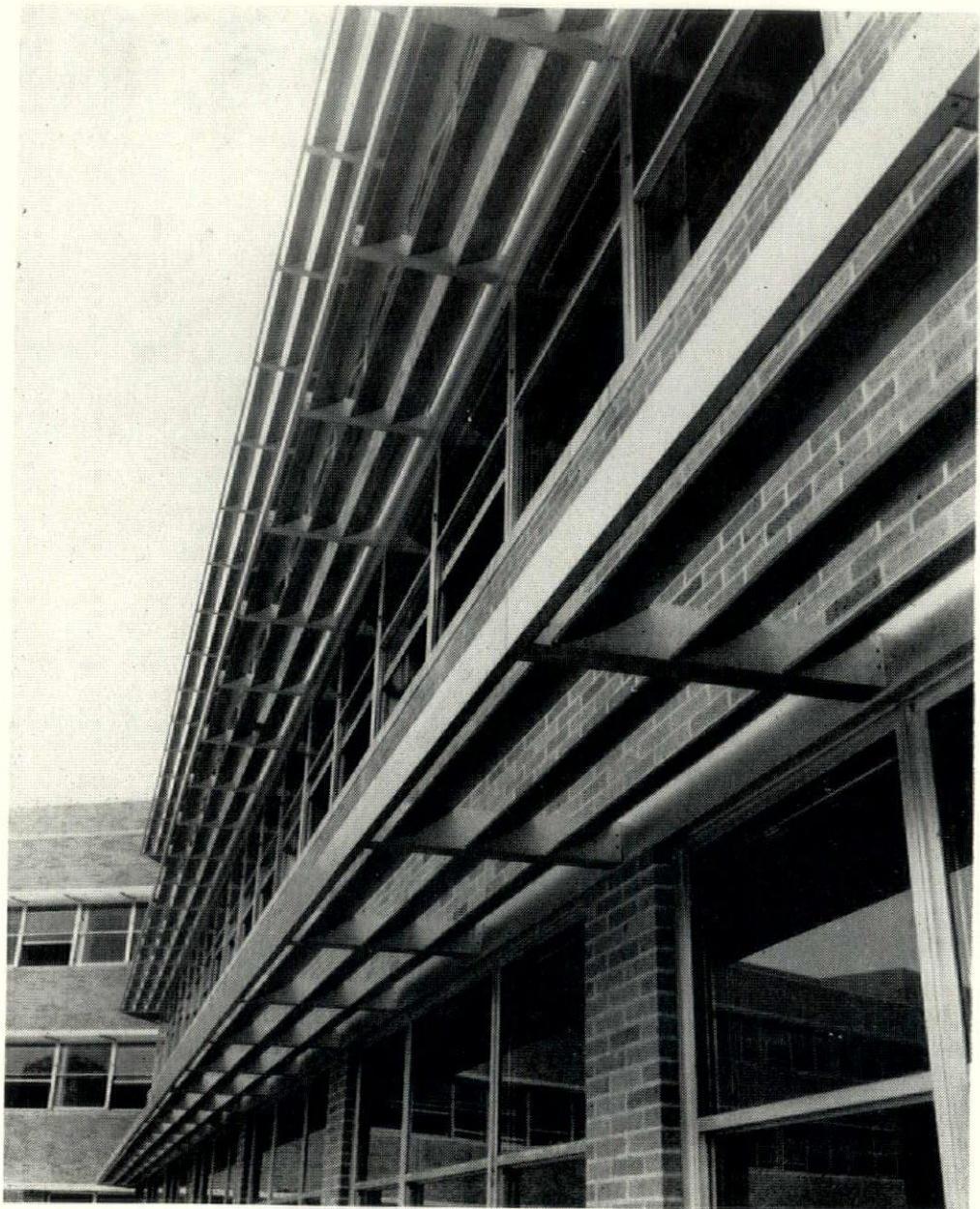
The headquarters group coordinates operations throughout more than 50 countries and territories in Asia, Africa, and Australia. Standard-Vacuum brings to Westchester the nerve center of an "integrated" company engaged in all phases of the oil industry. Stanvac explores for oil in such places as India, Pakistan, the Philippines, and British Somaliland. The company obtains most of its crude oil from producing fields in Sumatra, and maintains a fleet of more than 50 owned and chartered tankers which transport the raw product to its refineries in South Africa, India, Indonesia, Australia and Japan. The refined products are then conveyed by tanker, truck, tank car and ox cart to Eastern Hemisphere consumers.

Since the company was formed in 1933, Stanvac has directed these manifold operations from offices at 26 Broadway and other space in downtown Manhattan. In 1952 it was decided that rapidly expanding business

and a need to consolidate the staff under one roof made the move to Westchester desirable. A year ago County officials and Stanvac representatives joined in cornerstone laying ceremonies at the 55-acre Westchester Avenue site.

As the new building was officially occupied, construction workers of Starrett Brothers & Eken and numerous subcontractors were still putting the finishing touches on the entrance lobby, dining room, board room, and a few top floor offices. There was also considerable work to be done on the grounds, which eventually will present a green, landscaped hillside rising for a distance of more than 800 feet to the building's front entrance, about 90 feet above street level.

Located in Harrison just across the town line from White Plains, Standard-Vacuum's new home office commands a panoramic view of the countryside. The long reinforced-concrete structure, designed by the New York architectural firm of Eggers & Higgins, has three levels and a roof set-back. It is shaped somewhat like an inverted letter "Y," with swept-out wings at the front and an elongated base in the form of a "T." As the visitor approaches the building he sees a continuing ribbon of picture windows shielded from the



Aluminum sun louvres which shadow the windows of Standard-Vacuum's new headquarters in Westchester Avenue, White Plains, accent the low sweeping lines of the building. Glass in the lower right corner reflects a rear wing in this front-wing view looking toward the center stem.

direct rays of the sun by projecting horizontal aluminum louvres. Two Indiana limestone pylons accent the main entrance facing southwest toward Westchester Avenue.

Two floors are occupied by the company's operating departments. Directors' offices are grouped in the roof set-back. The dining room, which offers table and counter service to 350 employees at one sitting, and two recreation rooms and a central transcription room are at ground level, opening on flagstone terraces on both sides of the center "stem."

Standard-Vacuum's new home contains a number of innovations in the way of automatic office equipment. An electronic dictation circuit enables anyone to pick up a telephone, push a button, and dictate a letter or memorandum to be typed in the central transcription room. Intertwined within the walls is a pneumatic tube system of advanced design through which letters, files and even small objects may be "shot" in a matter of seconds to any part of the building.

The modular type of construction provides for movable interior walls. Containing more than 236,000

square feet of floor space (approximately the size of seven football fields), the Stanvac building has varied floor coverings including carpeting, vinyl tile, vinyl asbestos, marble tile and asbestos tile.

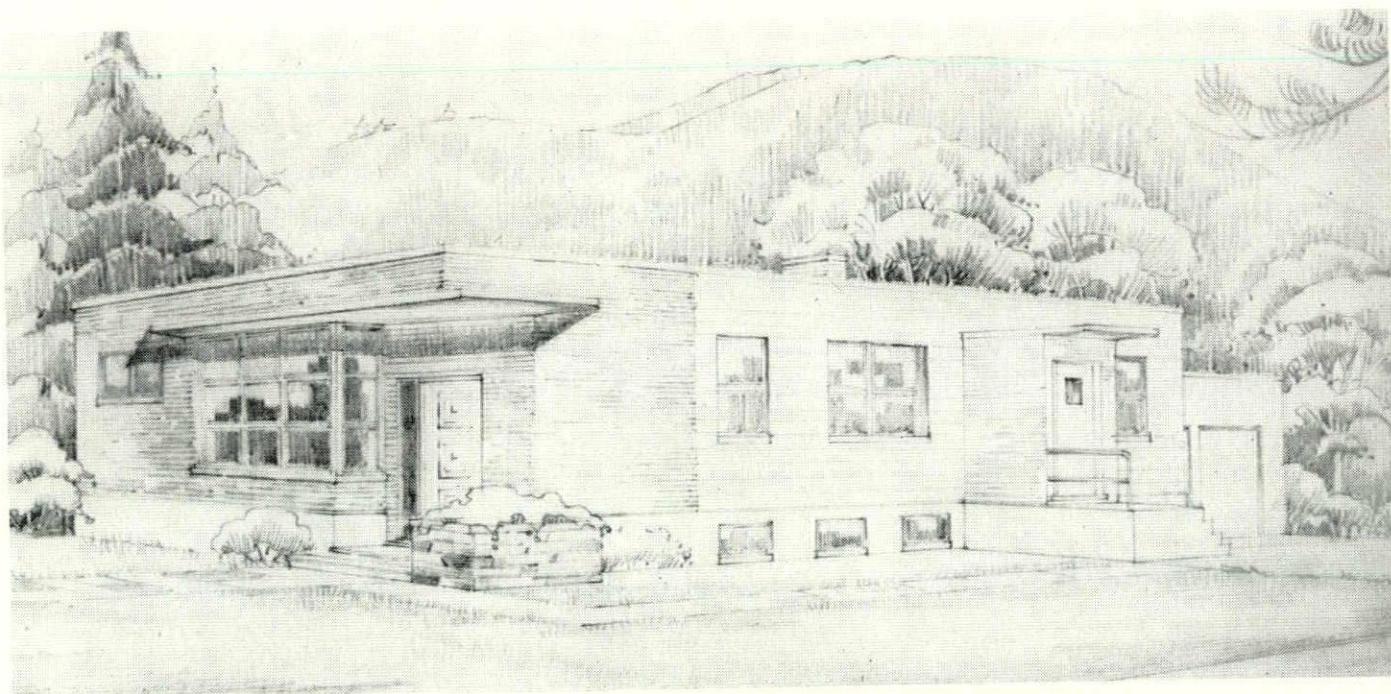
Each office has individually-controlled air conditioning and heating. A complete room-controlled sound system delivers soft "music while you work" to the larger work areas, dining and recreation rooms. Recorded programs and announcements may be broadcast on this circuit. In the walls and floor slabs are 106 miles of electrical wiring, 34 miles of conduits and 16 miles of cable ducts.

Of Stanvac's eventual full complement of 700 employees, more than 400 are already living in Westchester, Fairfield or Rockland Counties. At present, nearly 200 are commuting to work from outside the tri-county area. Special bus service to and from the new building has been provided for those commuting from New York to White Plains by train. To date, Stanvac has hired 76 new employees in Westchester. Some 30 additional positions are yet to be filled to bring the staff up to full strength.

# INDIAN LAKE HEALTH CENTER

INDIAN LAKE, N. Y.

GRANGER & GILLESPIE, Architects



The small Public Health Center is appearing in a number of communities too small to support a Hospital but in need of modern health service.

This project, designed to serve a group of 1200 people will have all the necessary services to meet normal medical needs and emergency situations.

The building will provide space for the Doctor, Dentist, and laboratory Technician, County Public Health Nurse and for the Public Health activities, and will provide the basic function of a Health Center as set forth by the United States Public Health Service, "control of communicable disease, individual health protection and promotion through provision of certain direct services and public health education."

Structure is fire-resisting of brick and block con-

struction, floor slab of flexicore and roof of bar joists and metal deck.

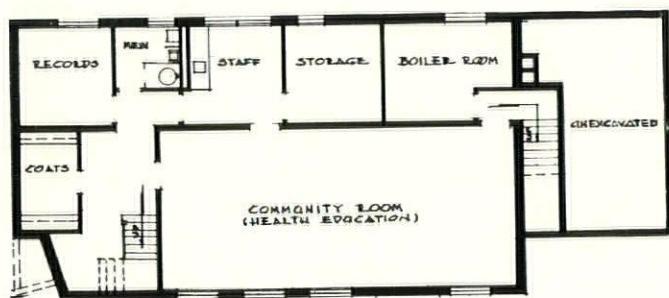
A hung acoustical tile ceiling for first floor will provide sound reduction and will carry a blanket of wool insulation against the extremes of this climate.

Interior walls are of masonry units with birch trim throughout.

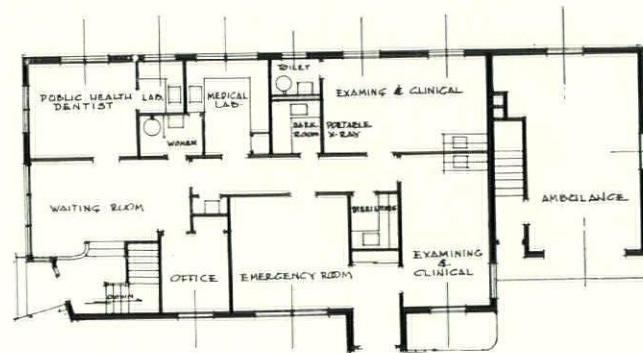
Heating and air conditioning will be provided through a duct system with baseboard diverters.

Community Room in basement provides a special feature serving for public health lectures and in addition as a meeting room for other community activity.

Corner entrance stair provides access to both medical services on first floor and community services in basement with a control of their separate activity.



GROUND FLOOR PLAN

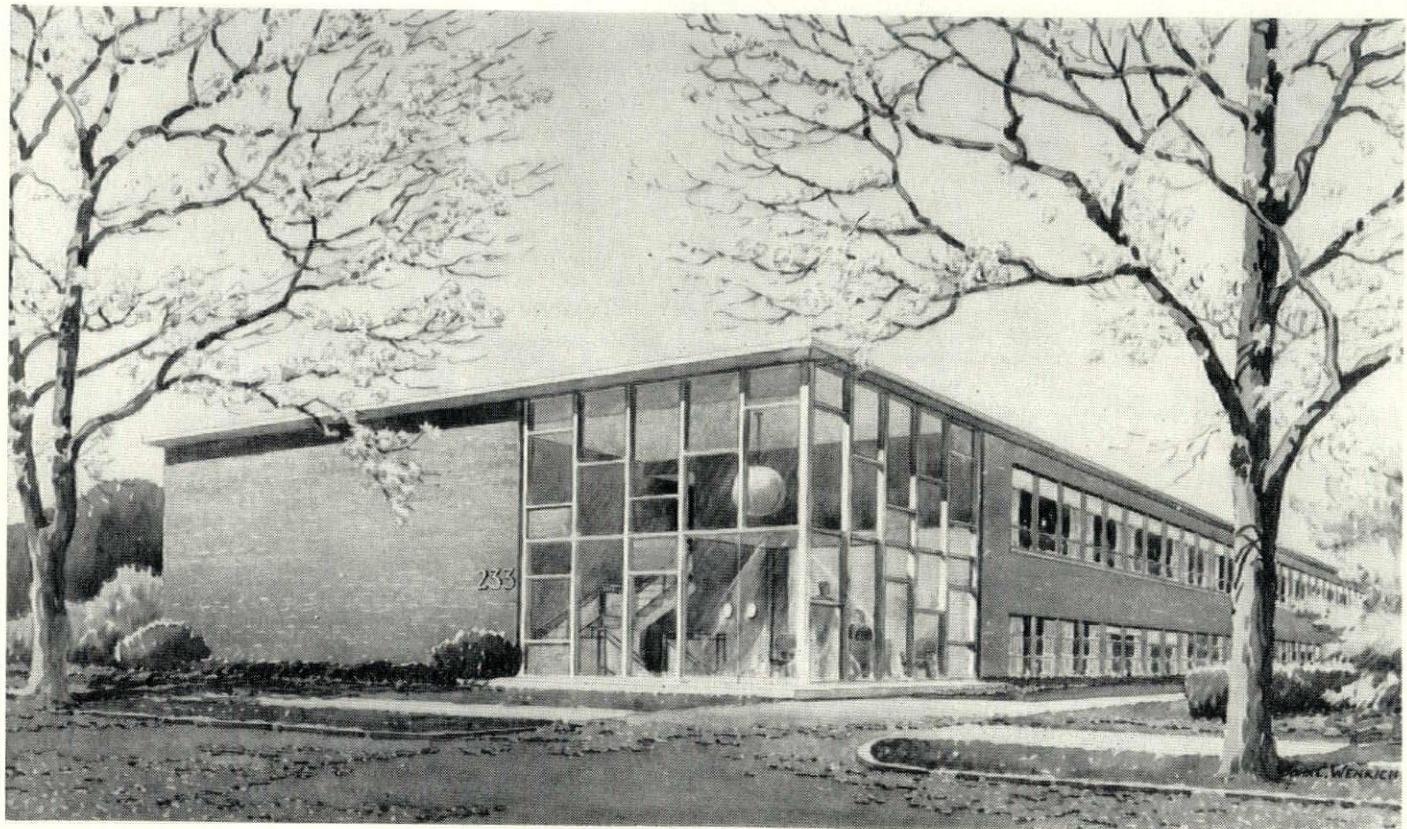


FIRST FLOOR PLAN

# MEDICAL OFFICE BUILDING

ROCHESTER, N. Y.

JOHN W. BRIGGS, *Architect*



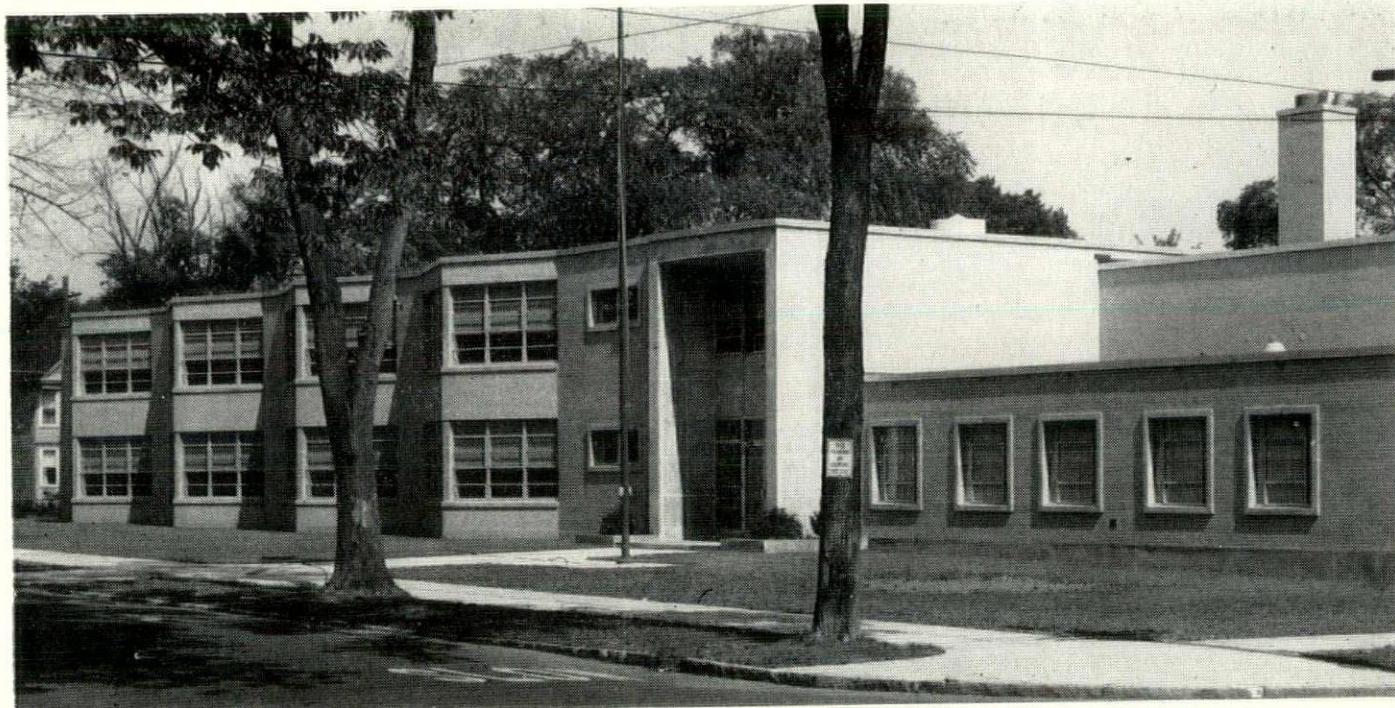
This medical office building in the City of Rochester will be occupied by 16 doctors with independent practices. The building is 50 ft. in width by 145 ft. in length with a central corridor running the full length of the building with entrances at either end and a large parking lot to the rear. The area of the building, 15,000 sq. ft., did not justify use of an elevator, thus a multi-level building was decided on with the reception area on grade in order that there would be only 9 risers to the ground floor and 9 risers to the floor immediately above.

All suites have entrances to individual waiting rooms from this corridor with corridor side of the waiting room entirely of translucent glass. All columns are along the corridor on 16' centers giving freedom for both present and future layout of offices. All suites are planned to the individual practitioner's wishes with stress on principal points such as arrangement of suites for privacy of doctors and patients, temperature in examination rooms, ventilation required for X-ray rooms which may be tight areas because of light proof

shades and ray protection required, and proper lighting.

The ground floor is concrete over insulated and waterproofed porous fill. The floor above and roof are on bar joists with metal lath and poured concrete. The wall construction is Norman brick, hollow blocks, furring lath and plaster. The framework is steel pipe columns and beams. The framing and window centers have been established on a 4'-0" module for flexibility of office layouts. The windows are aluminum with hopper vents. All ceilings are acoustical tile and lighting is over large areas to prevent glare.

The building is heated by the local utility's high pressure steam system and converted to hot water for distribution in winter and from a central chiller through the same piping for summer cooling. No fresh air is supplied to the rooms along the exterior walls but a central duct system is carried along the corridor to supply fresh conditioned air to the innermost rooms. All rooms are controlled individually for both heating and cooling.



## MILLER SCHOOL

UTICA, N. Y.

FRANK C. DELLE CESE, *Architect*

Completed — March 1, 1956

Volume — 463,972 cu. ft.

Total Square Feet — 37,436 sq. ft.

Two story — classroom wing.

One story — offices, kindergarten, all purpose room.

Boiler room only in basement — perimeter pipe space.

First Floor Slab on grade.

Second Floor and Roof — steel joists.

Roof Deck — gypsum.

Face brick exterior.

Asphalt tile and terrazzo floors.

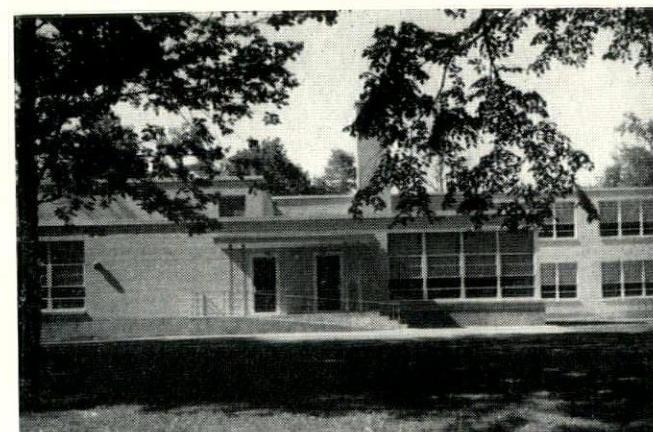
Glazed Tile Wainscotting.

Plaster Walls and Ceilings — acoustical tile.  
16 Classrooms; 2 Kindergartens; Health Suite; All Purpose Room 40 x 64 — Stage 14' x 22'; Principal's Office and general office; Teachers' Room.

|                      |              |
|----------------------|--------------|
| General Construction | \$358,000.00 |
| Heating              | 48,306.00    |
| Plumbing             | 29,989.00    |
| Electrical           | 35,777.00    |
|                      | <hr/>        |
|                      | \$472,072.00 |

Cost per sq. ft. .... \$12.61

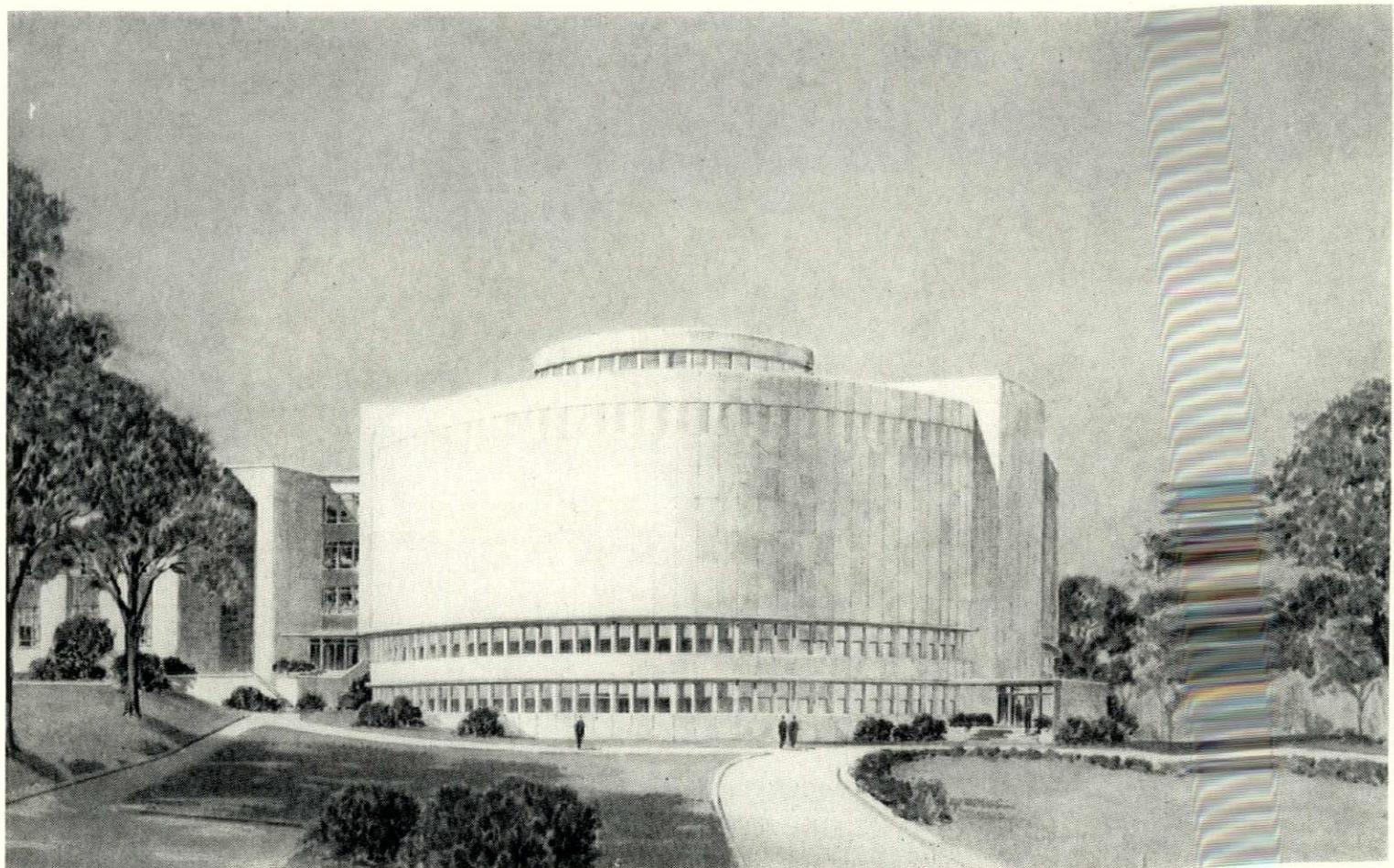
Cost per cu. ft. .... 1.02



# THE ADDITION TO MUSIC SCHOOL

INDIANA UNIVERSITY

BLOOMINGTON, INDIANA



Theodore J. Young, partner in the architectural firm of Eggers and Higgins, 100 East 42nd Street, New York 17, outlined the new facilities his firm has planned for the Indiana University School of Music at the Indiana and Midwest School Building Planning Conference held in Bloomington. Mr. Young's talk was the highlight of the two-day program, which also heard Wilfred C. Bain, Dean of the Indiana University School of Music; William Chase, Director of Schoolhouse Planning, Indiana State Department of Public Instruction; and Wilbur Young, Indiana State Superintendent of Public Instruction.

The new Music School will be circular in plan and appearance, and will have virtually no windows. These two features, Mr. Young pointed out, derive from highly practical considerations. The individual music teaching unit which forms the basis for the plan, he said, has better sound control when at least two of its walls are not parallel. The use of the circular plan permits a large number of various sized trapezoidal shaped spaces to be fitted neatly and efficiently together. An early decision on the part of the University to air condition the Music School enabled the architects to omit windows on the music practice floors, thus greatly reducing certain problems of sound transmission. The omission of windows, Mr. Young added,

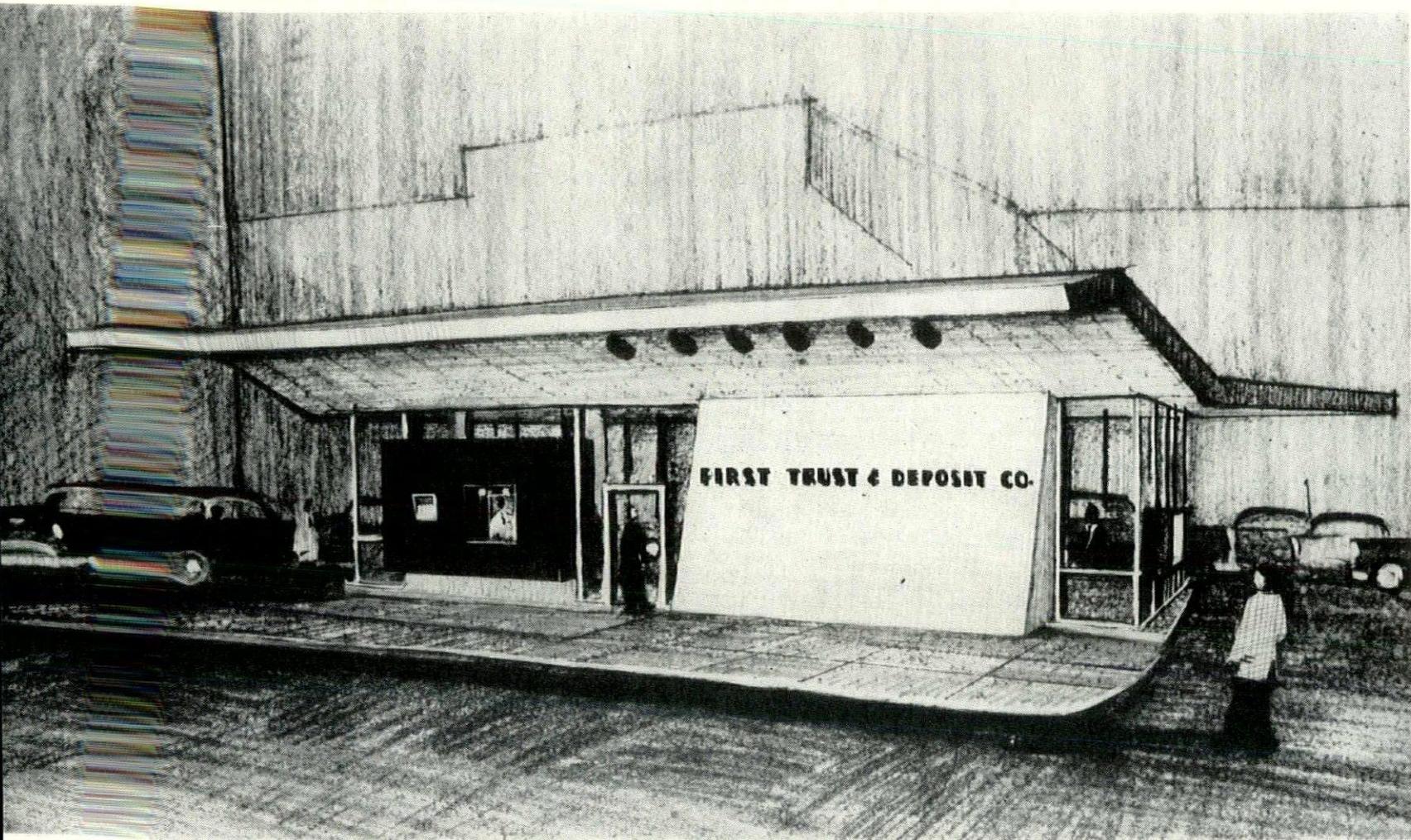
also has a strong unifying effect on the exterior appearance.

The circular building will be an addition to the present rectangular music school, and will be connected to it by an elevator and stair lobby. In the future a polygonal Opera House will be constructed, to seat 1000. Five basic functions are incorporated in the new addition. They are individual studio instruction, individual practice, group vocal and instrument practice, individual and group performances, and class instruction in musical theory, literature, etc. Numerous types of soundproof materials and walls will be used, and study is being given to providing a means of changing the reverberation time in some of the rooms to meet with the character of music desired by the instructor. Indiana University is in a region for limestone, and the new music school will be faced with that material.

Eggers and Higgins are Supervising Architect for Indiana University. Working drawings for the Music School are being prepared by Daggett, Naegle and Daggett of Indianapolis. The acoustical consultant was Michael J. Kodaras, 150 East 35th Street, New York City. Completion of the building is anticipated during 1957.

# FIRST TRUST AND DEPOSIT COMPANY DRIVE-IN BANK

HAWLEY E. McAfee, Architect



The Drive-In Bank is located in the center of the City of Syracuse and is planned to accommodate the customers of the First Trust & Deposit Company in five ways, viz: three Drive-Up Teller Windows, three interior tellers, one exterior Walk-Up Window, Night Depository with dual head, and free parking.

Basement area provides vault, toilets, storage and boiler room for heating and air conditioning.

The all glass walls were used to have clear vision from interior as well as from exterior.

In designing this structure, it was felt that a building of such small size had to have an especially outstanding design which would compete favorably with its much bigger neighbors in attracting attention. This is already proving to be true in spite of the fact that the building is not yet completed. The roof is a continuous steel frame cantilevered twelve feet on front and eight feet on the other three sides supported on six columns. Continuity was accomplished by using splice plates top and bottom and sheer welds web to

web. Precast concrete plank forms the roof deck and the soffit is Simplex aluminum pans which also form the ceiling inside. Armorply is used for panels below the glass.

The Walk-Up Window is framed in Bonnacord black granite with light gray terrazzo base below, which carries into the lobby floor. The canted wall is of white ceramic tile on which are mounted orange colored aluminum letters. All exterior trim work is alumilited aluminum.

Interior counter work is white oak with the main vent and stack shaft framed in rosewood. Backcounters are oak and teller counters metal.

In order to arrive at this design solution it required many man hours and the collaboration of everyone in the office; in fact we feel that this contradicts the old saying that many cooks spoil the broth.

In addition to the office force, credit should be given to Thomas M. Farmer for structural design and Robson & Woese for mechanical design.

HARLEY J. MCKEE

It is difficult for a citizen of the Empire State to realize fully the great contrast between the population of today and that of 160 years ago, and the relative smallness and simplicity of its governmental agencies. An illuminating incident shows Governor Clinton supervising some repairs and alterations to his official residence, writing out his bill longhand to present to the legislature so that he could be reimbursed for money out of pocket. In 1811 we find Elisha Jenkins, Secretary of State, furnishing 24 1/4" planks for a wall fence on the state building lot, and submitting his bill for \$6.00 along with other suppliers and workmen. Perhaps such things could happen today, but we do not expect them!

Architects practicing today may be interested in examining some of the smaller jobs done on state buildings in the early 19th Century, and may enjoy some of the flavor of the times. Papers saved from destruction in a paper mill, by the Onondaga Historical Association, deal with a variety of roof repairs, room refinishing, painting, and other comparable alterations. Very few of these minor operations appear to have relied on architectural services, but they do offer some quaint usages like these items taken from 1829 work on State Hall:

"30 plank for the repair of the Celar floor"  
"putting Stays to the Compt desk and repair of the  
necessary door"

- "3 Spit boxes for Canal room, and one Compt private room"
- "taking out 8 windows for washing and putting in the same"
- "3 rulers Canal room"
- "cutting Stone Basin"

The use of the Hudson River as a route for shipping supplies from New York to Albany, or from points between, is clearly shown on a number of bills. One presented by Le Roy Mowry brings out the problem of securing cargo for the return voyage: "Please pay my young man Mr. Fonder the amt. of frt. bill due for last cargo of Stone del. — and I will thank you for a copy of the Weigher's bill — are you in a hurry for another load — or will it make no difference with you if we lay by four or five days — down freight is now extremely scarce and we would like to stay at Troy until the Middle of next week if it will make no difference with you —"

Incidental repairs were sometimes lumped together for legislature approval, but at other times even comparatively small jobs required specific action. In 1810 curtains were installed on 18 windows in the Assembly Chamber by Peter D. Turcot, upholsterer, No. 67 Maiden Lane, New York. They were made of 677 yards of "Crimson Noreen" supplemented by "Fringe" and "Borders." Four of the windows were provided with "Large Gilt Eagles" costing \$25 each. "16 Cur-

**FANCY CHAIR STORE.**  
Wholesale and Retail.

**WILLIAM BUTTRE,**  
**HAS REMOVED TO No. 154 STATE-STREET—ALBANY**

Nearly opposite the Capitol, sign of the two Golden Chairs,  
WHERE HE HAS CONSTANTLY FOR SALE,

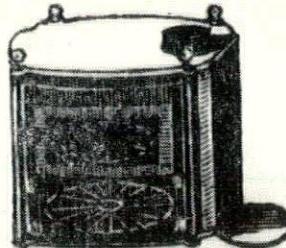
A large Assortment of elegant, well made, and highly finished Brown, White, Copuelico, Gold, and Eagle Fancy Chairs, Settees, Conversation, Elbow, Rocking, Sewing, Windsor, and Children's CHAIRS, of every description, and on the most reasonable terms.

LIKEWISE, Curled-maple Varnished Chairs, Superior in elegance of workmanship to any made in this State, warranted and sold at the New-York prices.

ORDERS from any part of the country will be attended to with punctuality and despatch.

Old Chairs repaired, varnished, and re-gilt.

S. & H. STAFFORD,



REGULAR IMPORTERS OF  
**HARDWARE**,

Cutlery, Saddlery, Hoop (L)  
German and Cast Steel.

Dutch Bolting Cloths,

Selected from the most celebrated manufactory  
which will be warranted of superior quality.  
Bar and Hoop Iron, Steel, Hollow Ware.

Mill Stones, Mill Irons, and

**STOVES**

OF IMPROVED PATTERNS.

Philadelphia, German and Cast Steel.  
Cross Cut, Tenant and Mill Saws. An-  
vils, Vices, Sledges and Hammers, Shovels  
and Spades, Tin Plate, Iron Wire—bright  
and anneal'd. Nails of every description—  
cut and wrought. Sheet and Bar Lead.  
Mill Cranks and Spindles, Clothiers' Tools  
generally, &c. &c.

ALBANY, Sept 8<sup>th</sup> 1827.

Executive Chamber

Do's of S. & H. Stafford,

AT THE SIGN OF THE GILDED STOVE,

No. 387, South Market-street,

125. Sheet lead — q<sup>ts</sup> \$11.72  
Cartage 1/ — 13  
\$11.85.

16. Sept. 1 pad lock 2/6. 3  
1 p. pullis — 1/6. 3 — 50.  
\$12.35

Recd. Payment in full of Mr  
C. Benjamin in Sept. 11. 1827.

S. & H. Stafford  
R. Wm. Humphrey

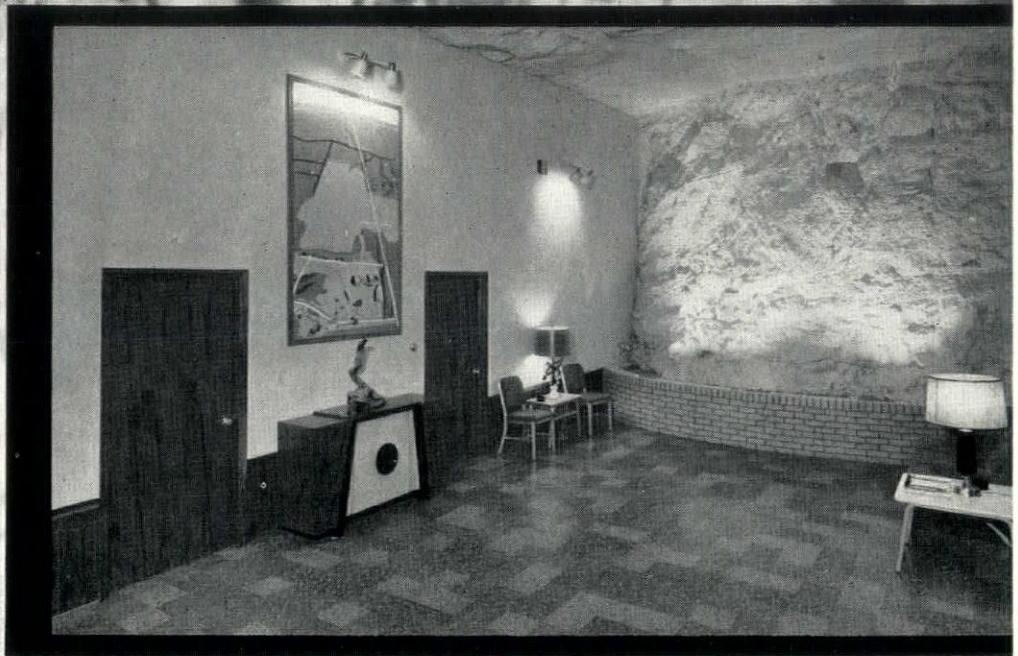
tains Peens" and "Doubles Brass Pullis" formed part of the installation. During the previous session the Assembly had passed a resolution to have the curtains put in and the Clerk had issued the order. Upon completion, the Speaker of the Assembly certified that it was necessary to pay Mr. Turcot \$1606.75, the Assembly passed a resolution, and the Senate concurred.

In August 1817 the five judges of the Supreme Court decided that their court room in the capitol needed alterations. They requested the sheriff of the City and County of Albany, with the help of three commissioners, to have the gallery removed, to move the judges' bench from the east to the south side of the room, and to alter other fixtures. As any architect knows, even the direction of five judges and the "unanimous advice" of three commissioners does not necessarily assure success; in this case ". . . in the prosecution of the proposed alterations, it was found necessary, in order to afford sufficient light, to construct a Skylight." Now this skylight involved placing 270 panes of glass in a dome, and in the end ". . . the Expense has very

far exceeded the sum contemplated by us." Fortunately for the judges and the workmen "the Honorable the Legislature" approved the total expenditure of \$6067.35, with the understanding that Albany County would pay one third of the amount.

Philip Hooker, the original architect of the capitol, was at least consulted on one point of appearance. On January 6, 1818, he presented a "Valuation of door Cases" which Geer & Duncan were making. They involved fluted Ionic columns, "open pediments" containing Roman vases, rich festoons of drapery and "Raffle flowers." His estimate was \$95 per door.

The remodeled court room was quite completely furnished, down to a Bible and two Wedgwood ink stands. William Buttre supplied 42 "Bamboo Fancy Chairs" and 5 "Fancy Arm Chairs," the latter presumably for the judges. His letterhead reproduced here-with may indicate something of their elegance. A Mr. Stafford furnished two stoves for the room, which may or may not have resembled the one shown on his letterhead of a few years later, also reproduced here.



TALK ABOUT **BELLOW GRADE**  
**MATICO TILE** INSTALLED 100 FEET UNDERGROUND



Built for the Pixley Company by  
Haines & Jones Construction Co.,  
Independence, Mo.

When the Pixley Company of Independence, Mo. decided to go underground, they wisely took along MATICO tile flooring for beauty and protection!

Occupying a former limestone mine 100 feet underground, this unique project serves as an ideal location to manage and control the 160 acres of vacant underground space that the Pixley Company plans to lease to others for storage purposes.

Look at the photograph above of Pixley's reception room. Notice the dramatic use of the natural limestone column for the far wall. Ceiling, too, is natural limestone. The Company refers to its headquarters as "an object lesson for industrial firms who will later use the area". This unusual project has completely modern facilities for living and working, is completely comfortable. Pictured at the left is Pixley's attractive walnut panelled main office. It's hard to believe this bright, spacious office with its "picture window" is 100 feet underground!

MATICO is proud that its tile flooring was selected for use throughout this project. Whether your next project is a completely "different" one such as Pixley, or a more traditional home, industrial, or institutional project, be sure to consider MATICO quality tile flooring. It's made to meet your most exacting demands.



**MASTIC TILE CORPORATION OF AMERICA**

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Maticork • Cork Tile • Plastic Wall Tile

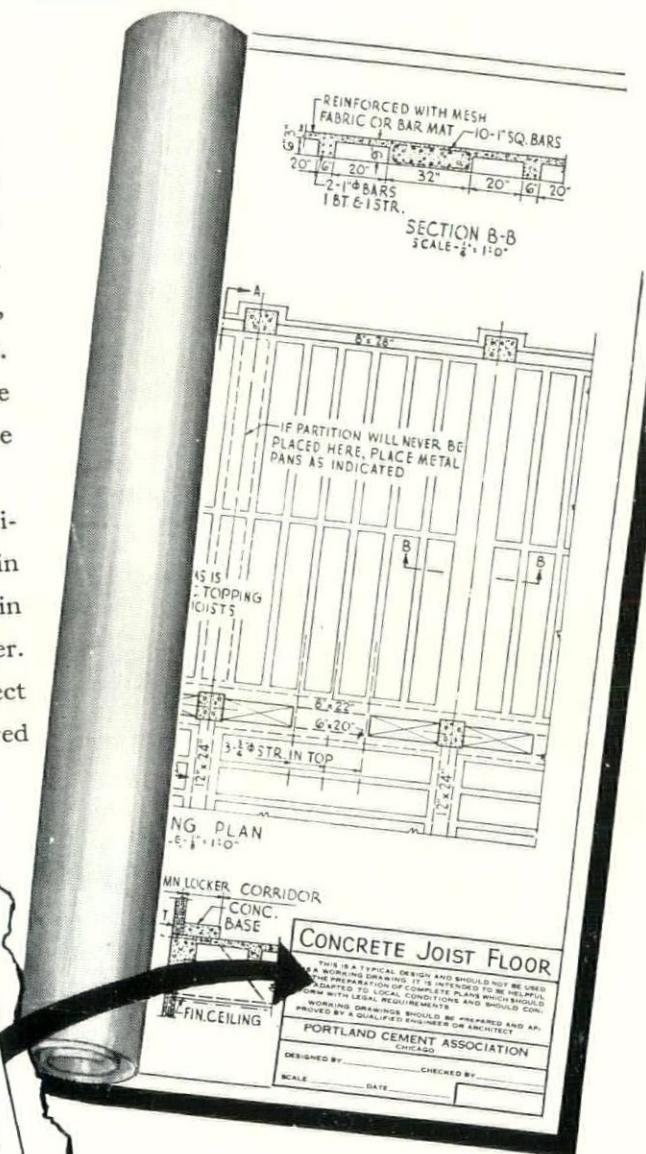
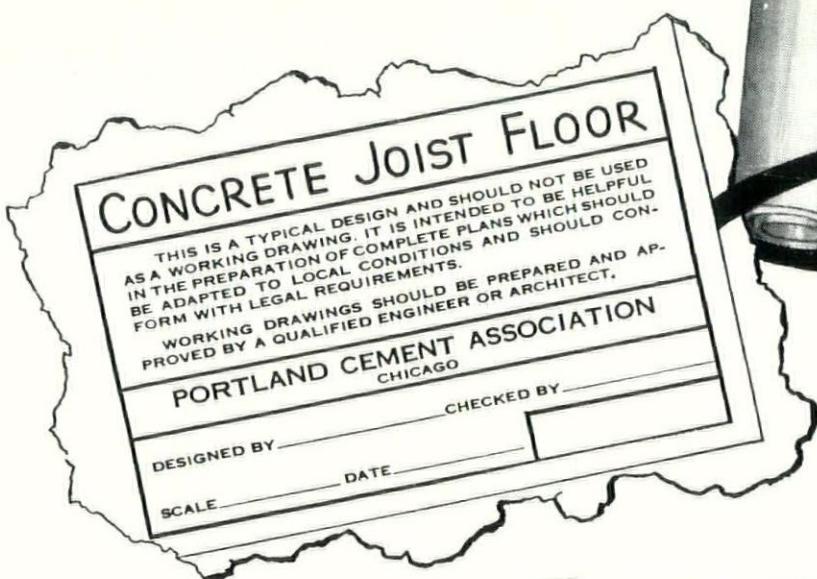
# PCA Policy on Engineering and Architectural Service

Because the Portland Cement Association believes that the best interests of the individual and the community are served when competent professional services are engaged to insure sound building construction, it is a basic Association policy to urge the employment of qualified engineers or architects on concrete construction whether the job is a skyscraper, a bridge, a pavement, a sewer, a house or a farm structure.

A principal function of the Association's staff of concrete technicians is to assist engineers and architects with concrete design or construction problems.

The educational literature and the many drawings of typical concrete uses which the Association distributes widely in the United States and Canada, are intended to be helpful in obtaining the maximum service which concrete can render.

Drawings of typical designs carry a notation to the effect that final working drawings should be prepared and approved by qualified engineers or architects.



## PORTLAND CEMENT ASSOCIATION

250 Park Avenue, New York 17, N. Y.

A national organization to improve and extend the uses of concrete... through scientific research and engineering field work

# BRONZE MONUMENT IN THE SKY

Some 4,000 years B.C., on artificial mounds towering above the muddy Mesopotamian plains, the Sumerians began building their many-storied brick and stone ziggurats, the prototype of the Tower of Babel, in honor of their now long forgotten gods.

It was not until 6,000 years later, and more than 6,000 miles away, that men devised the first practical embodiment of his age-old aspiration towards the sky, the modern skyscraper, whose newest and perhaps most dramatic example is the great new Seagram building, now rising at 375 Park Avenue, New York, a tribute to the architectural genius of Mies Van der Rohe and Philip Johnson.

In the intervening gap of more than five millenia, "common-sense" builders throughout the world had dismissed the dream of skyscaling structures of practical use — as opposed to pyramids, monuments and cathedral towers — as an architectural fantasy.

But, in the second half of the 19th Century, the skyscraper became possible, practical and necessary. This was the direct result of the world-transforming Industrial Revolution and its accompanying outburst of inventive genius and vast growth of cities.

So was born the skyscraper — and it was both inevitable and fitting that its birth occurred in the United States, the newest of the great nations, the only one conceived and born in a new continent, free of the shackles of out-worn tradition.

The Industrial Revolution, by making unlimited supplies of iron and steel available for the first time in history, made possible the employment of metal as the primary building material.

This led directly to the great architectural revolution of modern times, the use of the metal skeleton, instead of masonry or brick walls which had to grow thicker as the building grew taller, to support the entire weight of the structure. Metal's enormous strength and comparative lightness removed — from the practical viewpoint — virtually all previous height limitations.

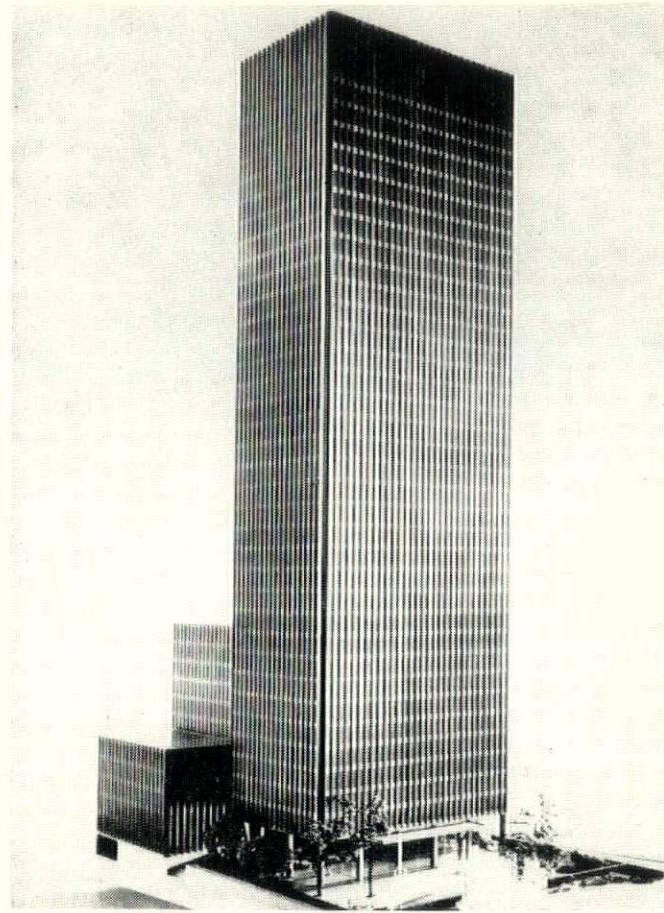
The skyscraper was made practical — for nobody wants to climb more than three stories — by a typically American "do-it-yourself" inventor, Elisha Graves Otis. In 1852, while master mechanic in a Yonkers, N. Y. bed factory, he invented the first safety elevator.

The skyscraper became an economic necessity when the vast growth of cities enormously increased land values in business districts. Since they could no longer, from a dollars-and-cents viewpoint, expand horizontally, buildings had no place to go but up.

The world's first true skyscraper, the Home Insurance Building, was completed in Chicago in 1885. It met all three qualifications. A metal frame structure, it was the first to use Bessemer steel beams. Its elevators were both fast and safe. And, erected on increasingly valuable land, it stretched skyward, first ten stories and then, in 1890, twelve.

The second true skyscraper, the 13-story Tacoma Building, was erected in Chicago in 1888.

(As is the case with virtually all major advances and inventions, controversy still rages as to whether the Home Insurance Building, or the Tacoma Building, erected three years later, deserved the title of "first skyscraper." But in 1931 a committee of architects and construction experts awarded the Home structure the palm of priority.)



Then, in its birthplace Chicago, the skyscraper concept reeled from what seemed a fatal blow. Ignoring completely this distinctively American architectural advance, the "pallid academic minds" in charge of the 1893 Columbian Exhibition, staged to celebrate the tercentenary of the discovery of America, chose for the exposition buildings the pompous — and to modern minds vulgar — Roman Renaissance style.

Louis Sullivan, acknowledged leader of the new "skyscraper" school, mourned that "thus architecture died in the land of the free and the home of the brave . . . the damage will last for half a century."

But, fortunately, Sullivan was wrong. The skyscraper, filling a need that no other form of structure could, would not be downed. In Chicago itself, despite the influence of the pundits who controlled the Exhibition, Sullivan's own masterpiece, the Gage Building, which foreshadowed and paved the way for the climactic evolution of the skyscraper concept in such edifices as the Seagram building, was completed in 1898.

The beauty and practicality of this great American contribution to architecture and modern civilization — one of the very few major revolutions in the art of building — soon spread it throughout the United States and the world. In virtually every great city across the globe the skyscraper was recognized as the one possible solution of the dilemma posed by ever mounting ground costs and the ever growing demand for office and service space within the high-priced urban business area.

Strangely enough, however, New York City, now internationally recognized as the showcase, shrine and center of the skyscraper, at first lagged behind Chicago and St. Louis in skyscraper development.

(Continued on Page 72.)



TEMPLE ISRAEL, ALBANY, N. Y.

LEON M. EINHORN, Architect

# **BRICK for beauty and durability**

The use of brick is the perfect answer to today's demand for naturally durable and beautiful building materials. And they offer an almost unlimited range of colors and textures to fit any decorative scheme.

**MOHAWK BUILDING MATERIALS CORP., RENNSLAER, N. Y.**

**HUTCHISON-RATHBUN, INC., ROCHESTER, N. Y.**

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**BINGHAMTON BRICK CO., INC., BINGHAMTON, N. Y.**

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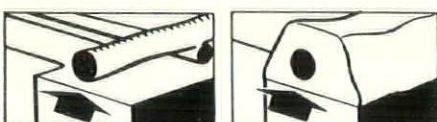
*For*  
BETTER STRONGER WALLS

USE WAL-LOK IT BONDS BETTER  
Mortar Joint Reinforcing

THE WAL-LOK WAY



When a mason uses reinforcing in a masonry wall, he lays the reinforcing right on the last course. With WAL-LOK, Cross Rods are welded across the Side Bars. The mason puts WAL-LOK on the wall with the Cross Rods DOWN.



The Cross Rods hold the Side Bars up away from the blocks and the mortar completely surrounds each Side Bar. With WAL-LOK, the mortar grips all the way around!

All WAL-LOK is also deformed and knurled for a positive bond the full length. All this still permits a quarter inch mortar joint.

THE WRONG WAY



With ordinary reinforcing, where all the wires are butt-welded in one plane, the Side Bars rest right on the blocks. The mason puts on his mortar. Steel doesn't float, so the mortar can't get under the Side Bars and the mortar bonds only to the top and sides.

WHY EXPECT MORTAR TO DO SOMETHING YOU CAN'T DO?



When you try to hang onto a rod, you don't hold it with your finger tips. You grip it in your fist with your fingers wrapped all the way around.

Why gamble—on cracked walls or wall failures. WAL-LOK costs so little yet adds so much to the strength and value of the structure.

WRITE TODAY for your copy of WAL-LOK's new folder showing sizes, specifications and test results.



ADRIAN PEERLESS, INC.  
1503 E. Michigan St.  
Adrian, Michigan

## How To Prolong Your Working Life

You are strong, healthy, skilled, reliable—but 65 years old. At that age, in many lines of work, workers face the prospect of enforced retirement.

Why retire, you want to know, when you are as good as ever? Why does the Social Security law itself pick out 65 as the age for quitting?

Well, it is a grim fact that before he is 65 nearly every worker actually is physically disqualified in one vital particular. At 65 the eyes are nearly always "shot" compared with the eyes of a person of 30, says the Better Vision Institute.

To understand just what goes wrong with the aging eye, and finally knocks it out as an unaided working tool, you should be familiar with the life history of these marvelous seeing organs of ours.

The powers of the eye are at their peak, in certain vital respects, in early childhood. From that point they go down-hill at a steady rate. A child of 10 years has a soft, pliable lens in its eye which can easily be pulled into different shapes, or thicknesses, by the ciliary muscles.

Thanks to that, the ten-year-old can clearly distinguish an object held only 2.8 inches from the eyes. In addition, the child has a tremendous range of clear vision. It can adapt its eyes, internally, to see anything from 2.8 inches away to "infinity." The eye specialists describe this power by saying that it amounts to "14 diopters of amplitude."

Now consider what happens. Before the age of 50, most of us can't see to read or do close work without glasses, though we can still see well enough at a distance. By the age of 70 we can see nothing clearly that is closer to our eyes than 13 feet. And our splendid 14 diopters of "range" have shrunk to  $\frac{1}{4}$  of a diopter, meaning that we can see clearly only at one distance instead of at all distances, like a child.

Of course, nearly everybody knows how to deal with these conditions, in part at least. If the distant vision is still good, say around 50, we get a pair of reading glasses for close looking. As the distant vision, too, becomes a little foggy we get a pair of bifocals which enable us to see both near and far.

The bifocal has been a blessing to man ever since Benjamin Frank-

lin invented it. But two things put a limit on its usefulness. The first is advancing years, bringing a shrinkage in our "range of accommodation." Therefore, between the short range of the bifocal reading segment and the long range of the distance segment, a foggy area opens up, where we can't see very clearly. This range of blur, in many cases, includes objects more than 15 inches distant and less than 50 inches distant. This is the "intermediate" range.

It is also, you will notice at once, the "arm's length" range, at which most work, like operating a typewriter or taking articles from shelves or working at a shop bench is done. So this brings us to the second limitation of the bifocal. It simply isn't suited to the needs of most working jobs when the aging eye can no longer "accommodate" for the intermediate distance.

What was to be done? Why, lens designers stepped up the capacities of the bifocal 50 per cent by adding a third lens, for the intermediate distance. These trifocals have turned out to be easy to get used to, for most people. As a rule they eliminate the intermediate area of foggy vision and give so-called continuous vision between near and far.

With the advent of the trifocal, specialized glasses for workers with different seeing needs became a reality. Near-point or intermediate lenses can be placed at the top for jobs that require looking up. They are made wide for those who must cover a lateral range. Countless occupational requirements have been analyzed, such as actor, artist, architect, lawyer, auctioneer, bricklayer, butcher, and almost any other calling you can name.

Multifocal glasses, the Better Vision Institute concludes, will not easily change our notions that a worker should retire at 65. But they can make him comfortable and efficient on the job long before he is 65. And eventually, as their use widens, these glasses promise to bring new life and occupation to a great army of senior workers, past 65 and retired, whose services are needed to maintain full American production.

## NEW DISTRICT OFFICE IN TRENTON

The Portland Cement Association has announced it will open a district office in Trenton, N. J., to serve the state of New Jersey. The state was formerly served by the district office in New York.

Establishment of the new Trenton office will allow the Association to greatly expand its services to cement users in the state. Engineers, builders, contractors and farmers especially depend on the Association for technical help and the latest information on construction practices, research, design and new uses of cement and concrete.

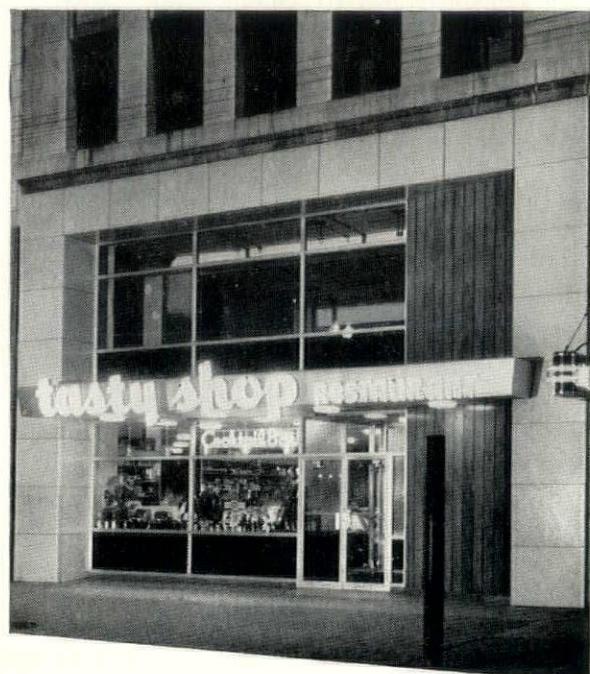
Albert L. Blackwell has been appointed district engineer and will supervise activities of the new Trenton office. Three field engineers of the New York Office who have been working in New Jersey have been transferred to the new office. They are W. B. Dallas, K. M. Huber and J. J. Kane. Three additional engineers will be added to the staff serving the state.

The new district engineer in charge of the Trenton office, Albert L. Blackwell, 47, has been employed by the Association since 1946 as a field engineer. Previously he was employed as a resident engineer for Malcolm Pirnie, consulting engineers, New York, and the Army Engineering Corporation in Puerto Rico and the Virgin Islands. He also has been a partner in a private engineering practice and a field engineer for the New Jersey State Water Policy Commission.

Blackwell, a 1931 Civil Engineering graduate of the Newark College of Engineering, is a registered professional engineer in New Jersey and a Commissioner on the State Board of Professional Engineers and Land Surveyors. He is a past president of the Bergen County Society of Professional Engineers, a member of the New Jersey and National Society of Professional Engineers, American Water Works Association and the American Public Works Association, and a charter member of the Caribbean and Puerto Rico Water Works Associations.

(Continued on Page 70.)

# Idea for planners



Davidson Facing Panels frame a striking remodeling job, providing an appearance calculated for business!

(and ideas are easy to work out, with  
**DAVIDSON ARCHITECTURAL PORCELAIN**)

Davidson Architectural Porcelain is supplied in exact required panel dimensions, to fit any framing or structural system. Any color or shade may be specified, including special two-color effects. Choice of gloss or matte surface is offered. Installation . . . using stainless steel screws and clips . . . is fast and easy.

Imagination always gets a boost toward reality when Davidson Architectural Porcelain is included in building or remodeling plans. Here, no hint remains that this space was formerly a bank. Davidson Porcelain Panels, applied to simple furring over the original Corinthian pillars, provides a completely modern setting—the neutral gray color used forming a perfect complement for the aluminum framing and redwood accent.



Consult the Davidson Architectural Porcelain distributor in your area, (listed below). He offers skilled engineering and erection service, plus assistance on any application.

**F. P. ARNOLD CORP.**  
312 Kensington Place  
**SYRACUSE 10, N.Y.**

*Solve all your door problems by saving this*

# Weldwood Door Guide for Architects

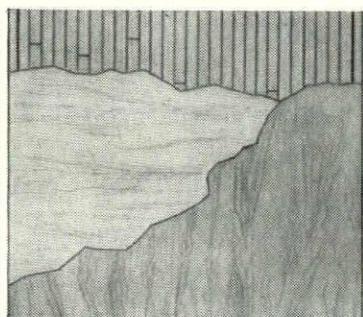
## Weldwood "Stay-Strate"® Flush Doors end complaints and Service Problems!

No other door offers so much. Maximum dimensional stability! Incombustible core! Greater insulation value! Vermin- and decay-resistance! Complete weathertightness! Over 30 decibels sound reduction!

Ideal interior or exterior door for homes, offices, apartments, institutions.

Guarantee—for the "life of the installation" . . . against warping, twisting or manufacturing defects—includes labor charges for hanging and refinishing.

Inert Weldrok mineral core. Birch, oak, walnut, Korina® and other beautiful hardwood faces. All standard sizes; thickness: 1 $\frac{3}{4}$ ". Light or louver openings available.



### Weldwood Lumber-Core Flush Door

*Top quality at a moderate price!*

Guaranteed for life against delamination. Has stave lumber core for dimensional stability. Virtually warp-free. Waterproof glue makes it suitable for exterior. Faces of mahogany, oak, Korina and others. All standard sizes. Thicknesses: 1 $\frac{3}{8}$ ", 1 $\frac{3}{4}$ ", 2" and 2 $\frac{1}{4}$ ".

### Weldwood Hollow-Core Flush Doors

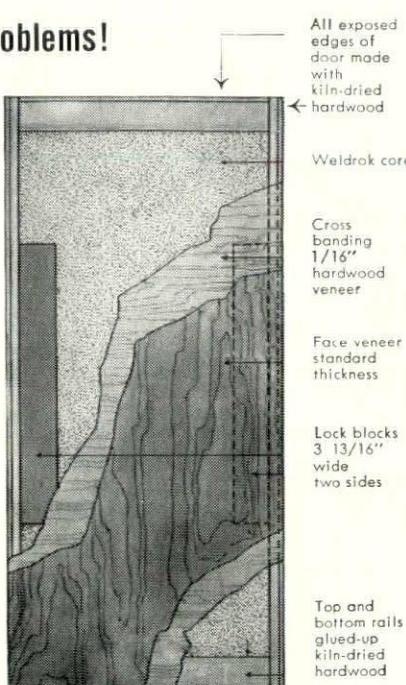
*leader in the low-price field*

Popular quality door in the lower price field. Beautiful woods: Gold Coast cherry, oak, walnut, birch, others. Standard sizes. Thicknesses: 1 $\frac{3}{8}$ " or 1 $\frac{3}{4}$ ".

### Novoply-Core Cupboard Door Stock

*virtually warp-free*

Special construction of nonwarping  $\frac{3}{4}$ " Novoply with birch faces and hardwood banding. Doors won't sag, stick. Wide range of stock types, sizes.



### Weldwood Louver Doors

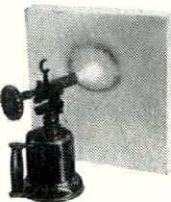
*of Ponderosa Pine or Fir*

Thicknesses: 1 $\frac{1}{8}$ " or 1 $\frac{3}{8}$ ". Single doors and pairs in standard sizes.

## SPECIAL-DUTY DOORS

### Weldwood Wood-Faced Fire Door\* gives double protection

Combine double protection against fire and heat (U. L. label for Class "B" and "C" openings, maximum heat transmission 250°F at 30 min.)

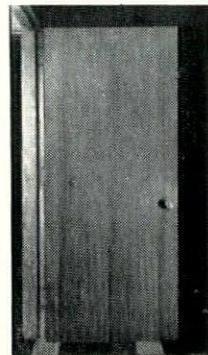


with handsome wood surfaces (oak, mahogany, walnut, others can be matched to walls). Mineral core of incombustible Weldrok®. Guaranteed for life including labor costs of hanging and refinishing. All standard sizes up to 4' x 7'. Vision panels available in 10" x 10" and 8" x 12". Thickness: 1 $\frac{3}{4}$ ".

\*Pat No. 2593050

### Weldwood Micarta®-Faced Door ends scuffing

The "Custom Royal" . . . ends scuffing and marring. Needs no kick- or push-plates. Wipes clean with a damp cloth. Available in decorator colors or woodlike faces. Lumber, Stay-Strate or honeycomb core. All standard sizes, ideal for all types of institutions.



**Weldwood Metal-Faced Doors:** A wide choice for restaurants, hotels and other institutions.

### Weldwood Novoply® Sliding Doors

Flattest, most stable wood door panel ever made. Won't stick because it's guaranteed not to warp in excess of  $\frac{1}{8}$ ". Textured Novoply Flush Doors come plain or birch-faced. Doors available alone, or complete sliding door unit with precision rolling hardware. Sizes 3' x 6'9 $\frac{1}{2}$ " to 8' x 8'. Thickness:  $\frac{3}{4}$ ".



**Weldwood X-ray Doors:** Lead-lined to your specifications.

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87 Offices in Principal Cities



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ESA9-56

I'd like to know more about Weldwood Doors. Please send me booklet No. 1489.

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FIRM .....

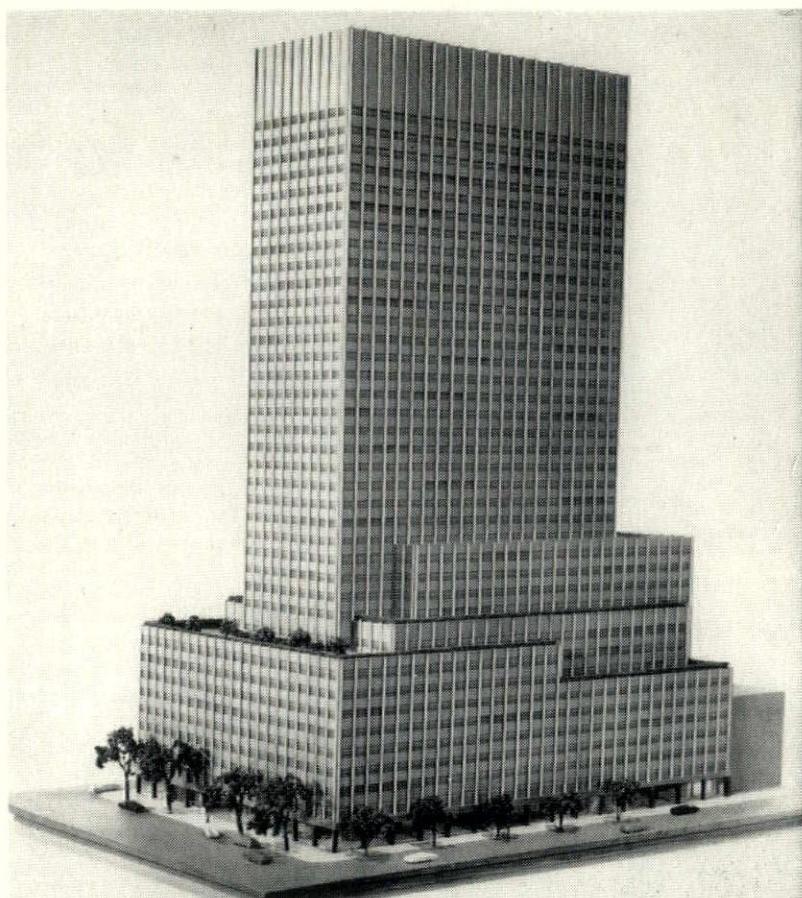
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CARSON & LUNDIN

*Architects*



The growing importance of prefabricated metal curtain wall panels in postwar skyscraper construction was sharply highlighted yesterday with the announcement that Tishman Realty & Construction Co., Inc., had awarded the Reynolds Metals Company a contract to sheath what will be the world's largest aluminum-faced office building.

The structure, which will be the third aluminum-walled skyscraper to be erected by Tishman Realty, will rise to a height of 38 stories and have a facade area of more than eight acres, enclosing more than 1,000,000 square feet of air-conditioned office space. It is now under construction at 666 Fifth Avenue in New York City on the westerly blockfront between 52nd and 53rd Streets, adjoining Rockefeller Center to the north.

The decision to use aluminum for the third time on such a large scale was made after careful analysis by Tishman Realty of its experience with its two previous aluminum-clad skyscrapers at 99 Park Avenue and 460 Park Avenue, erected in 1953 and 1954 respectively.

In making the announcement of the contract award, Robert V. Tishman, executive vice-president of the building firm, stated: "Aluminum curtain walls have fulfilled all our expectations. In both water-control and maintenance aspects, prefabricated aluminum panels have proven efficient. Despite the fact that the basic cost of an aluminum curtain wall is substantially higher than conventional materials, this is offset by the advantages in appearance, maintenance, faster erection time and ease of installation."

Mr. Tishman also pointed out that new developments in aluminum panel production, including improved die design, stamping techniques and anodization, plus the new method of placing porcelain enamel on aluminum, would greatly enhance the appearance of the new building's facade.

"These new developments," Mr. Tishman said, "will permit use of modern panel wall construction with all its advantages while at the same time make possible an architectural harmony with the adjoining Rockefeller Center buildings.

The 3,600 panels making up the facade of the new skyscraper will be fabricated, assembled and anodized at the Louisville plant of the Reynolds company and shipped to New York via the truck rail "piggy-back" method next Fall.

The shipment schedule will be tied closely to the progress of the steel framework and the aluminum panels will be stored on each of the floors they will enclose as work on the superstructure advances.

The panels, which will be bolted to the steel framework of the structure at each floor level from within the building, will be 12 feet high and seven and one-half feet wide each and contain a window and a spandrel. Each panel will weigh only about 80 pounds, light enough for one man to handle. The total weight of the facade is just over three-quarters of a million pounds, or 375 tons.

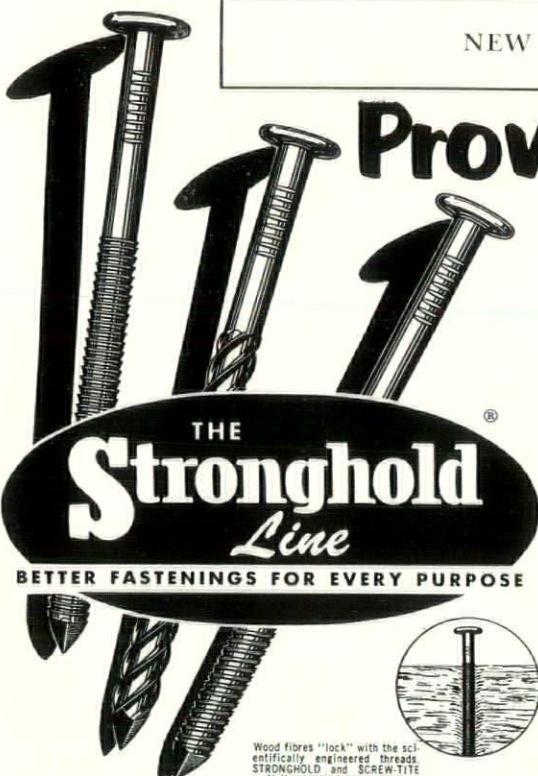
The space between each window will be approximately 26 inches and feature a 20-inch-wide band of white porcelain enamel set in a polished aluminum frame with a three-inch border on each side.

To introduce an element of ornamentation as well as structural strength, each panel is to be embossed with small die-pressed squares to produce a pleasing textured surface effect.

At the rate of 16 panels to a trailer, it will take a total of 223 flatbed vehicles to transport the entire facade to the building site. Extended bumper to bumper, the trailers would stretch a distance of one and one-third miles, or about 27 city blocks — a caravan almost the length of the Lincoln Tunnel.

(Continued on Page 85.)

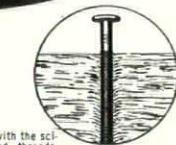
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technic Institute under the direction of Dr. E. George Stern. Reports of these tests will gladly be sent on request. These tests were conducted with **STRONGHOLD** and **SCREW-TITE** Nails as manufactured exclusively by us, and the results cannot be applied to nails of other manufacture.

For your own protection, always specify **STRONGHOLD** and **SCREW-TITE** Nails by name. No other nails can offer such proof of superiority.

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### **SCREW-TITE® MASONRY NAILS**

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Made of high-carbon steel, heat treated and tempered—won't bend or break in hardest materials. The scientifically designed threads aid driving—add to holding power.

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### **STRONGHOLD UNDERLAY FLOOR NAILS**

A "must" for laying smooth, tight underfloors for linoleum, asphalt or rubber tile or carpet. **STRONGHOLD** Nails can't work up to cause "bumps" or make holes in floor covering. Floors never get squeaky or springy. Specified by leading manufacturers of floor covering materials—used by floor covering applicators from coast to coast.



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Never "pop" or loosen; hold permanently tight. In bronze, stainless steel, aluminum and other metals. Available in matching colors in baked-on lacquers that won't chip or come off.



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Here at last are Aluminum Nails you can drive! In all styles, for all applications where Aluminum nails are advantageous. Available in annular thread, spiral thread, or smooth—in count packages under our exclusive trade name, "DRIVE-RITE." Ask for them by name. Write for special "Drive-Rite" brochure.

**made stiffer to DRIVE WITHOUT BENDING**



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INDEPENDENT NAIL and PACKING CO.  
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All Types and Spans.

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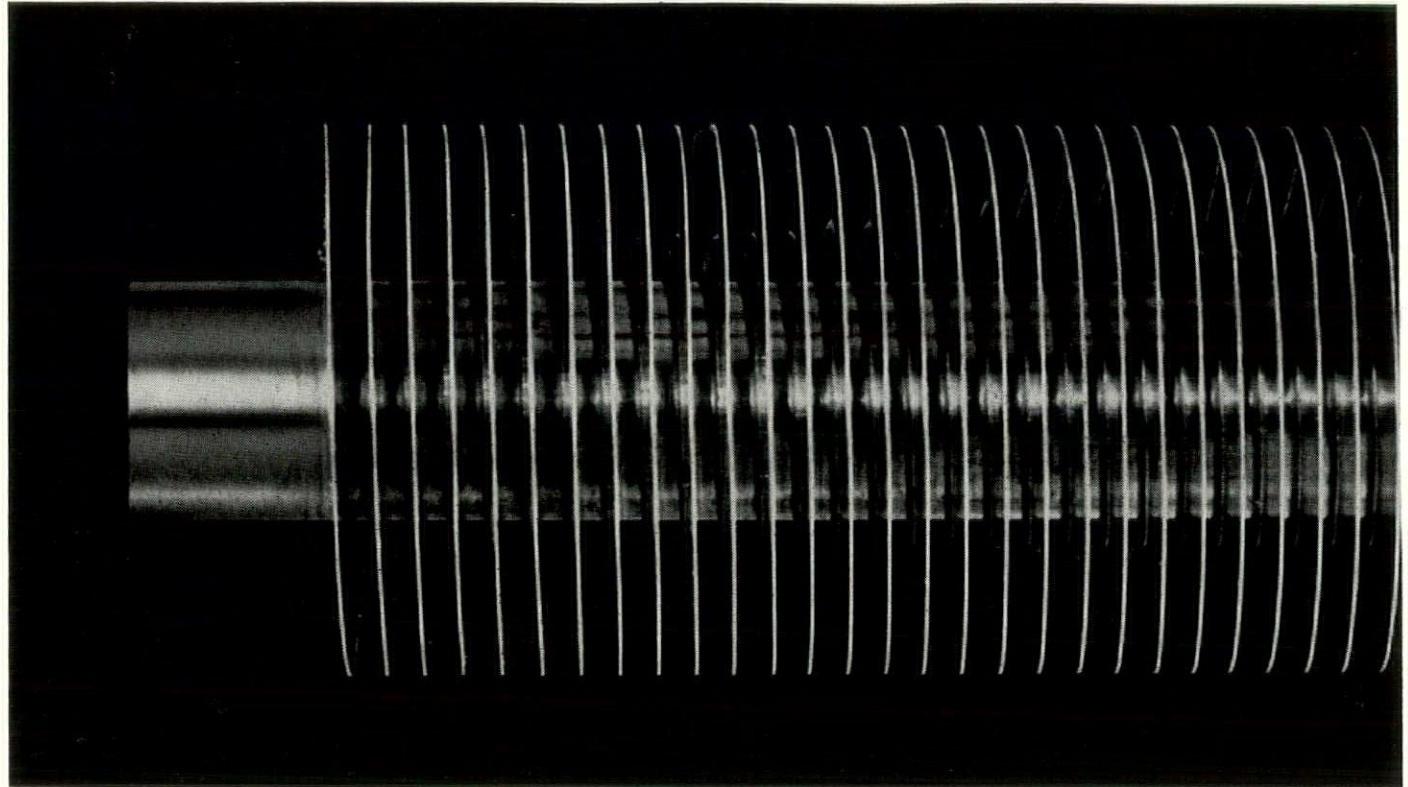
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**Greater Heat Transfer  
per sq. ft. of face area**

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Aerofin smooth fins can be spaced as closely as 14 per inch with low air friction. Consequently, the heat-exchange capacity per square foot of face area is extremely high, and the use of high air velocities entirely practical. Tapered fin construction provides ample tube-contact surface so that the entire fin becomes effective transfer surface. Standardized encased units arranged for simple, quick, economical installation.



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**Write for Bulletin S-55**

## NEW FLOOR SYSTEM

(Continued)

the wiring system are prefabricated and are installed quickly after slabs are erected.

Underwriters Laboratories gives a 3-hour rating to a Flexicore floor and ceiling panel of 8 x 16" slabs and 1½" topping. Article 358 of the 1956 National Electric Code, entitled "Cellular Concrete Floor Raceways," covers use of Conduflor. The 1956 Code will be published in September.

Architects using Flexicore electrified floors report savings over comparable floor systems. The dry erection of the long-span lightweight structural floors saves on-the-job labor. Less steel is required because of the long spans and overall saving in weight. The firesafe qualities of the structural floor require less topping, usually 1½", and a firesafe plaster ceiling is not required. As an important by-product of these savings, overall job time is reduced, providing earlier occupancy and resultant additional rental income.

The use of the Conduflor system for office buildings permits the construction of a firesafe building that can take advantage of new developments in movable partitions and flexible suspended ceiling systems. After fire-proofing of columns and beams, the building becomes a fire resistant structure without a plaster ceiling. This permits the use of a suspended ceiling system with complete flexibility of lighting fixtures and air diffusers. This, coupled with an electrically available floor and movable partitions, offers unlimited changes at low cost at any time in the future.

The Flexicore floor system, electrified or not, offers similar advantages for one-story or multiple-story office buildings and for most other types of building construction. It is also used for fast-erection, fire-resistant roofs. The Flexicore system had been installed in more than 20,000 buildings in the United States before the recent development of Conduflor.

Conduflor electrical fittings are used on the system, and include feeder ducts, handholes, electrical and telephone floor outlets and other fittings required.

The wiring runs from the panel box to the feeder duct, then along the feeder to a handhole junction where it drops into a cell in the concrete floor. It then runs in either

direction in the cell to an outlet. An outlet can be located at any point along the cell and can be installed at any time during the life of the building.

Any number of systems can be installed: electrical, telephone, intercom, and any others desired.

Both cells and feeder ducts have ample dimensions. Cells are 4½" or 6½" in diameter depending on slab size. Width of the feeder duct is 4"; depths variable from 1½" to 2", and special feeders with depths up to 4" are available for unusual con-

ditions. Handhole junctions between feeder and cell are 2¾" in diameter and the handhole in the finish floor is 3½" in diameter.

Installation of all fittings is simple. Feeder attaches easily to the floor and is used as a level for screeding the floor fill. Handhole rings and cover plates are installed after the fill is poured.

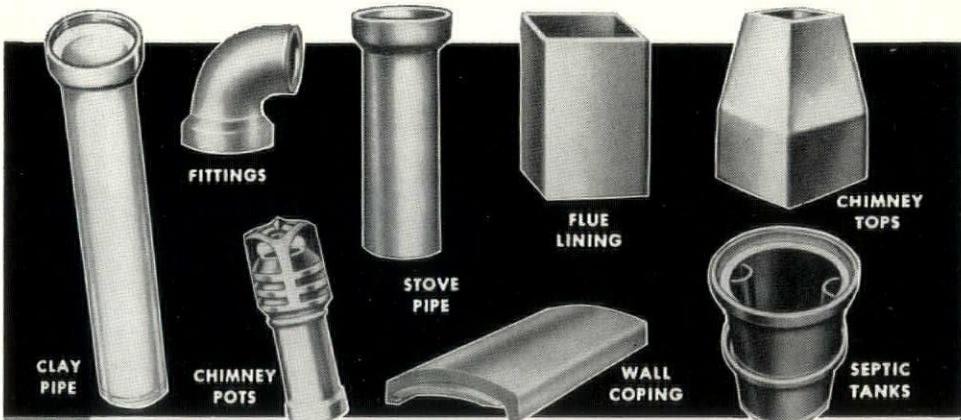
Floor outlets are designed to fit under low modern furniture. They are easily installed by simply drilling into the cell and fishing wire back to the header.



In addition to the Vitrified Clay Products illustrated here, specify Tebco Face Brick . . . famous for beautiful textures, color, and controlled uniformity. Tebco Face Brick is now produced by Evans at the rate of a million a week!

## Celebrating HALF A CENTURY OF SERVICE

Evans Clay Pipe and other Vitrified Clay Products are backed by a 50-year record of outstanding performance. This background of long and successful manufacturing experience is your guarantee of dependable quality. You can specify Evans products with full assurance of uniformity and prompt availability.



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OF FASTER  
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BLEACHER SEATS • BRIDGE SECTIONS

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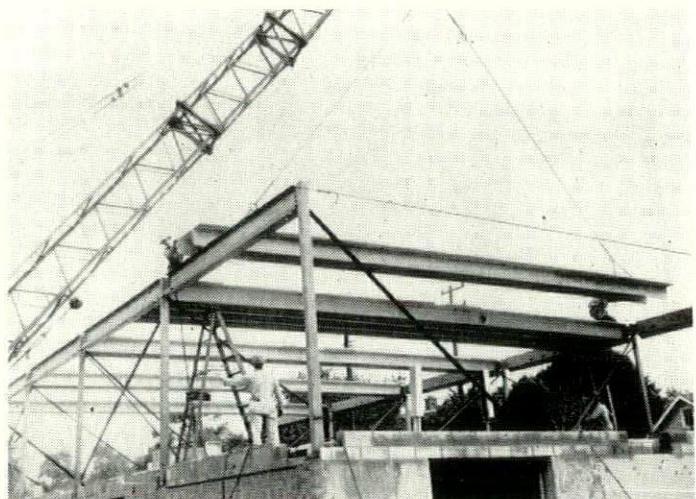
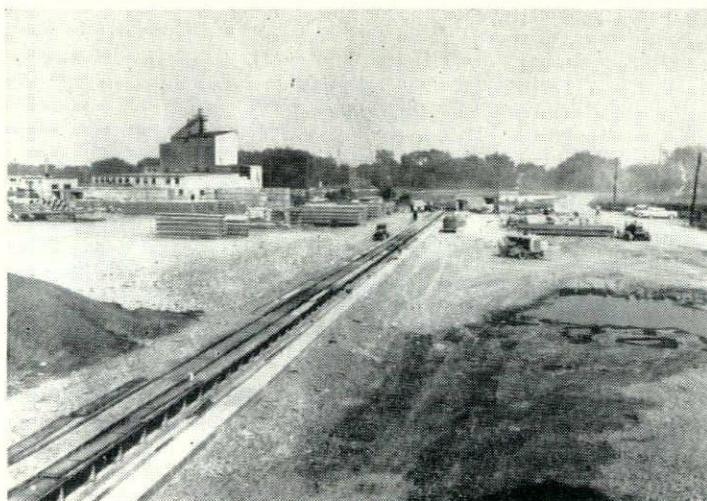
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LOCKPORT N. Y.

Frontier Dolomite also invites your consideration of Dolomite Limestone Block, the block with dimensional stability.

**Build it right.**

**Use Dolomite.**



Construction scene at the new Research Laboratory, The Upson Company, Lockport, N. Y. Architect: Backus, Crane, & Love. 40 foot sections being set.

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**TESTED DESIGNS • LONG SPANS • LOW MAINTENANCE**

**LOW COST • CONTROLLED MANUFACTURING • GOOD APPEARANCE**

**PERMANENCE • FIRE RESISTANT • STORM RESISTANT**

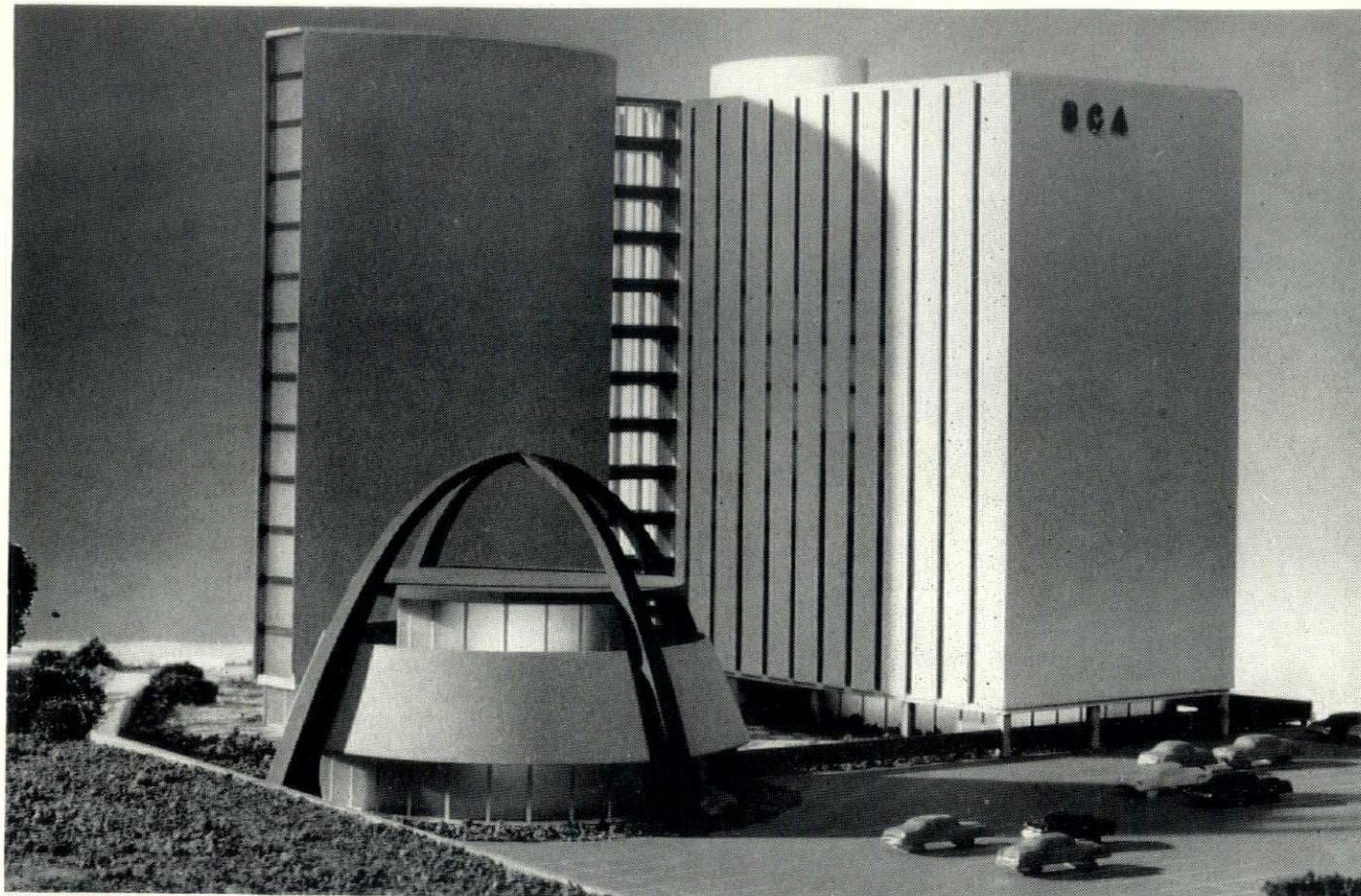
**BOMB RESISTANT**

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LOCKPORT, NEW YORK

# CONSTRUCTION INDUSTRY CENTER



Final plans for Los Angeles' revolutionary Construction Industry Center are to materialize in September, when ground is broken on the \$5,000,000 height-limit structure.

Sponsored by the 2,000 members of the Building Contractors Association of California, the C.I.C. will draw together all segments of the building industry into one giant "headquarters" when it is completed in the fall of 1957. The Center will include a 150,000-square-foot, 13-floor office building, 13-floor elliptical Tower of Exhibits, a Graphic Arts Center, and three-level parking facilities.

The Center will house sales and administrative offices of product manufacturers, financial organizations, subdividers, architects, trade and professional associations. "The need to integrate and streamline the activities in the industry has been particularly acute in this area," Ernani Bernardi, president of the BCA of California, said. "Completion of the Center will bring realization of a dream we've always had for improving everybody's business with one clearing-house of information and activity."

As designed by Architect John C. Lindsay, A.I.A., the Center plans call for dozens of features planned specifically for the needs of construction industry companies. It is located at the edge of Los Angeles' famous freeway network — making it the first major commercial building to take specific advantage of the super-highway system connecting all areas of Southern California.

An "expandable" auditorium for sales and special event meetings is included in the plans. Also, there will be facilities for closed-circuit television, and the showing of sound motion pictures for sales and busi-

ness firms. Water, gas, electric, and sewer outlets built in on the stage will facilitate live demonstrations for shows open to the public.

Included in the Center will be a bank and a restaurant which will cater the monthly trade association meetings held elsewhere in the building. The roof garden will house the Greater Los Angeles Construction Club.

Office building construction will include 10-foot wall sections alternating with 36-inch glass panels, both running the full height of the building and providing plenty of wall space for desk placement as well as natural lighting for each worker. Ceilings throughout the building are actually to be huge light panels with individual rheostats for increasing or diminishing light in any area.

The permanent Tower of Exhibits — the core of which is to be the first all-glass elevator in America — will connect with the office building at each of the 13 floors by glass-enclosed walkways, and will provide a single dramatic showcase for the entire range of building products.

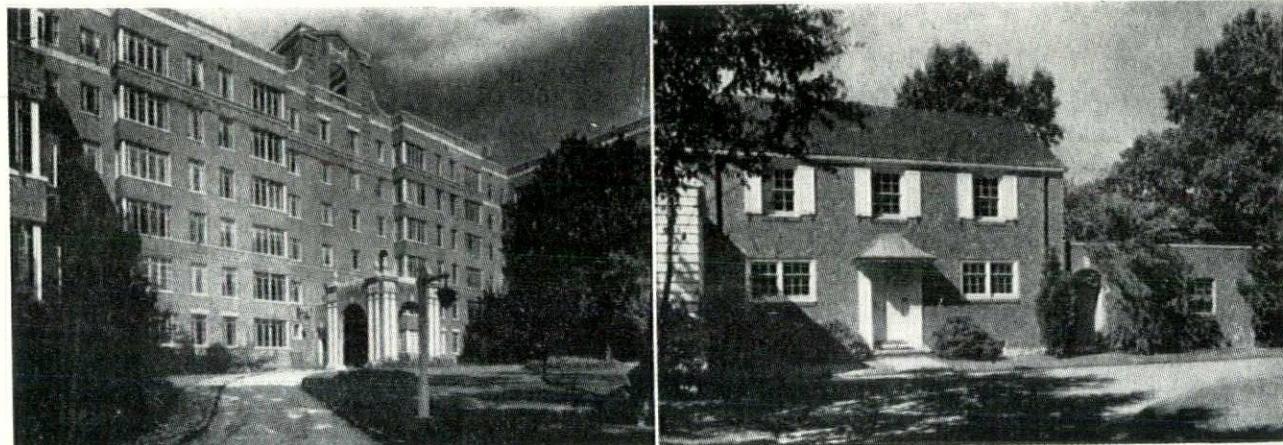
To serve industry occupants and exhibitors, a complete building project "Planning and Consultation" service will be maintained by the Center, as well as a continuing promotional, advertising and publicity service. Included in the latter will be a strong program in support of Operation Home Improvement, plus numerous services designed to help the layman as well as the builder to get the best and the fastest results with his building dollars.

Office leasing is being handled by W. Ross Campbell Co., a Los Angeles commercial realtor, and exhibit leasing is being directed by Building Products Exhibits, Inc.

# HUDSON RIVER BRICK

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**"DESIGN DEMAND"**



**W**hether designing in contemporary or conventional architecture, no building product will do more to enhance the beauty of your building than Hudson River Brick.

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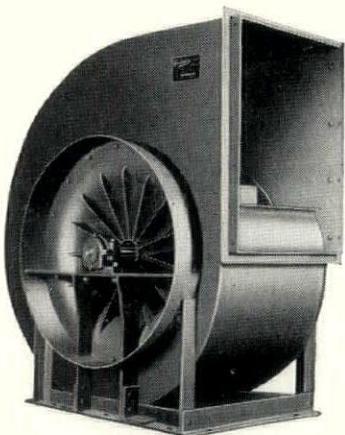
1949 GRAND CENTRAL TERMINAL

NEW YORK 17, N. Y.



*Buffalo Branch—Federal Reserve Bank of New York. James, Meadows & Howard—Eggers & Higgins, Architects; St. John, Platt & Carlson, Heating and Air Conditioning Engineers; Joseph Davis, Inc., Heating Contractor.*

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Type BL Ventilating Fan

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Selection of 36 "Buffalo" Supply and Exhaust Fans, 8 complete "Buffalo" Central Air Conditioning Cabinets, 79 heating and cooling coils and 11 "Buffalo" Pumps adds one more to the long list of leading buildings served by "Buffalo" units.

For your next air job, pick "Buffalo" as do so many of the country's experts—for the built-in Quality that provides trouble-free satisfaction and long life, year in and year out.

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VENTILATING AIR CLEANING AIR TEMPERING INDUCED DRAFT EXHAUSTING FORCED DRAFT COOLING HEATING PRESSURE BLOWING

**where 1st  
impressions count**



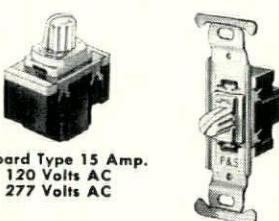
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ROTO-GLO®  
QUIET SWITCHES**

When a prospective buyer goes through your house, first impressions count. Built-in wall ovens and ranges . . . lighting fixtures . . . modern ROTO-GLO Quiet Switches — all create the feeling you've taken extra pride in the house bearing your name, that you've insisted on the finest electrical equipment available. That's why you're many steps ahead when you specify ROTO-GLO Quiet Switches to your electrical contractors.

Consumers are being told and sold on ROTO-GLO by the biggest national advertising and merchandising promotion in the wiring device industry. Millions of pre-sold consumers are reading about ROTO-GLO Quiet Switches in leading shelter magazines. The response for Pass & Seymour's booklet, "Modern Electrical Living," has been overwhelming. Certainly this proves they're interested in the whisper-quiet roto-type switch that glows in the dark . . . *that costs only a few pennies more.*



Despard Type 15 Amp.  
120 Volts AC  
277 Volts AC



Strap Type 15 Amp.  
120 Volts AC

Send today for complete information on the ROTO-GLO Quiet Switch and for a folder on modern Despard wiring devices, to Dept. ESA-1.

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**DISTRICT OFFICE**

(Continued)

Establishment of the Trenton office is part of a large expansion of the Association's activities in the eastern seaboard states. In addition to the new office in Trenton, offices are being opened in Portland, Me., and Baltimore, Md. Other Association offices in this region are located in Boston, Philadelphia and New York.

Activities in the area will continue to be under the overall direction of M. J. McMillan, Eastern Regional Managers, in New York.

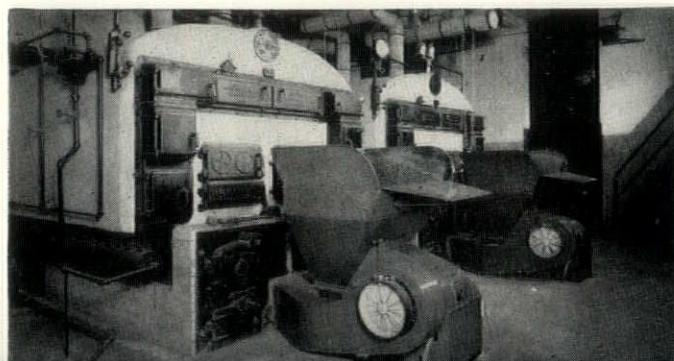
The Association has also announced establishment of a new Regional Office in Los Angeles, to supervise activities of the Los Angeles and Seattle, Wash., district offices, and the opening of a fourth new district office, to be located in Louisville, Ky.

This expansion is needed because of the sharp rise in construction activity in the last several years. Nationwide, construction has risen by more than 60 per cent since 1950. In New Jersey, the value of contract awards increased by 62 per cent last year alone, to a total of \$850 million. During the same period, the backlog of planned or proposed heavy construction projects rose 49 per cent to \$3.3 billion. Highway construction has been expanding rapidly and can be expected to rise spectacularly with recent passage of the new federal-aid highway program. Employment in the construction industry in New Jersey reached the new high of 117,000 during 1955.

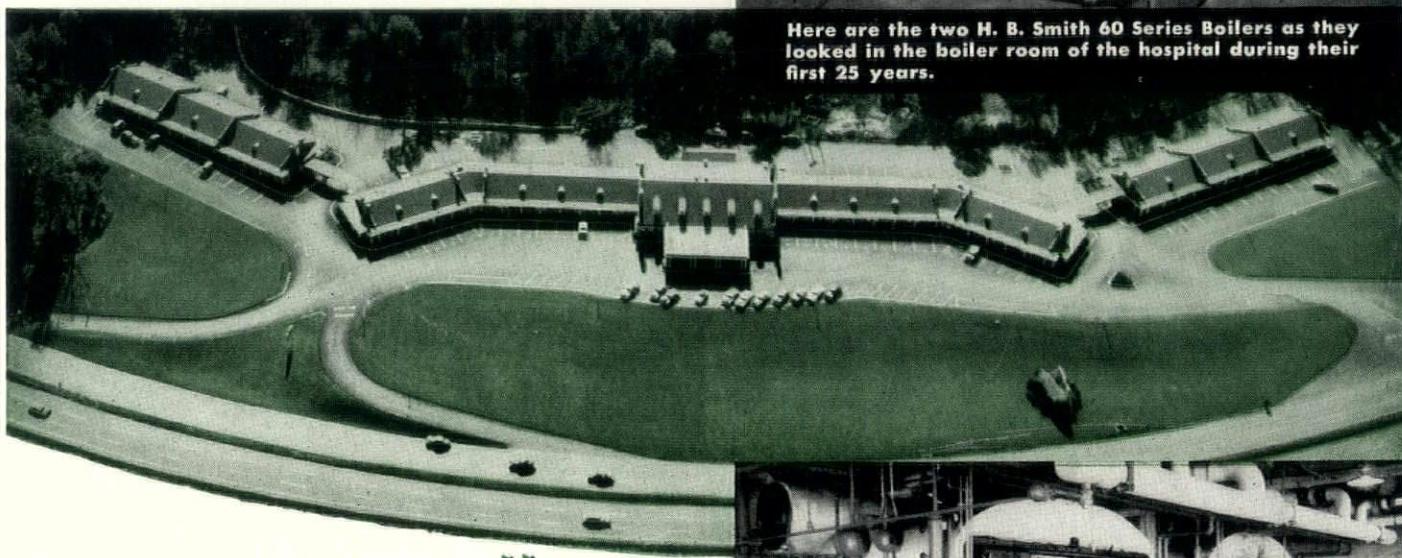
The great increase in construction activity has been matched by a corresponding rise in the activities of the Association, which is the principal source of technical service and information for cement users. Announcement of the new offices follows closely upon announcement of plans for a \$1.8 million expansion of the Association's laboratory facilities near Chicago, Ill., the largest laboratories in the world devoted exclusively to research on cement and concrete.

The Association's research, technical service and educational work are supported by the voluntary contributions of some 70 member companies in the U. S. and Canada, who produce a very large proportion of all portland cement used in the two countries. The Association has no connection with the manufacture or marketing of cement.

# After 25 years in a hospital—



Here are the two H. B. Smith 60 Series Boilers as they looked in the boiler room of the hospital during their first 25 years.

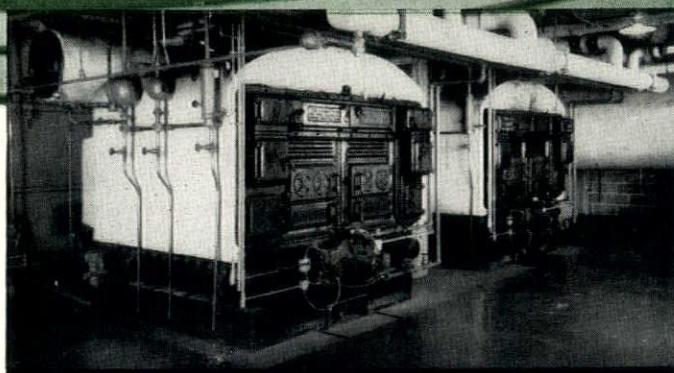


*They look well,  
don't they!*

Motorists who get around agree that the Framingham Motor Inn at Framingham, Massachusetts, is one of the finest and most modern motor courts in the country.

It isn't surprising that the heat and hot water for this 102-unit paragon of repose are supplied by two H. B. Smith boilers. Nor is it surprising to those who know boilers that the two boilers selected for the installation already had served for a quarter-century in a Rhode Island hospital!

After 25 years of day and night service, conventional boilers would be ready for retirement . . . but H. B. Smith boilers are still going strong. This is because they have vertical cast iron water tubes which are an integral part of the boiler,



Here are the two H. B. Smith 60 Series Boilers as they look today in the boiler room at Framingham Motor Inn.

and are highly resistant to fuel acids and feed-water impurities.

H. B. Smith boilers respond quickly, and maintain high efficiency with minimum attention. Maintenance costs are negligible and new sections can be added to provide greater heating capacity as a building is expanded.

Framingham Motor Inn can look forward to another quarter century of service from these boilers. After all — they've had *experience!*

**H.B. Smith** **CAST IRON BOILERS**

H. B. SMITH CO., INC., WESTFIELD, MASSACHUSETTS • Established 1853

## BRONZE MONUMENT IN THE SKY

This was ended only when New York's antique building code, which had stubbornly refused to recognize the superiority of steel over brick and stone, was drastically revised at the turn of the century.

Then rose the St. Paul Building, the Singer Building, the Woolworth Building, the Equitable Building, and the scores of sky-thrusting towers which have turned the Wall Street area and Midtown Manhattan into the major architectural wonder of the modern world.

The great modern skyscrapers, in New York and elsewhere, now are more and more taking advantage of another major consequence of metal framework construction — one just as important as its ability to build towards the sky.

This is the fact that the metal framework, by relieving the walls of their previous function of supporting weight, makes it possible to treat them purely as curtains — and to construct them of any material desired.

Sullivan's genius recognized this almost 60 years ago, when his design for the Gage Building designated glass and terra-cotta as the wall materials.

The walls of today's skyscraper are constructed of stainless steel, aluminum, glass or, as in the case of the Seagram building, bronze — a fact which makes Park Avenue's most modern skyscraper the world's first bronze building. (It also links it across the abyss of the centuries with the Sumerians, the first builders who tried to reach the heavens, since their civilization was based on bronze. Of course, in those remote days of mankind's dawn, bronze was too rare and precious to be used for anything but tools and weapons.)

(Continued)

This almost unlimited freedom in the choice of wall materials has made possible the treatment of light and space themselves as integral parts of the modern skyscraper.

In the Seagram building, for instance, the 153,000 square feet of bronze wall surface will be complemented by 122,000 square feet of glass, specially tinted a pinkish gray to admit the maximum of natural daylight and at the same time eliminate glare. The tinting also will blend with the bronze as it ages and weathers, making the gleaming structure the "jewel" of skyscrapers.

The setting and equipment of the new skyscraper will be in keeping with its architectural eminence. The Seagram building will rise from the only "park on Park Avenue," a half-acre of glistening pools and fountains.

It will have zoned "finger-tip" air-conditioning, 18 high-speed electronically controlled elevators, basement parking and storage, "off-street" loading platforms, master television antennae and closed circuit color television will be available to all tenants.

This magnificent building, which will become a landmark noted for the many public service events which take place there, is the culmination of a long-time dream of Samuel Bronfman, head of the parent Seagram company. It is the climax of the evolution of Park Avenue from the finest residential area in the world to the focal point of international business.

This is the modern skyscraper, built in America for the service of free men as its remote ancestor, the Sumerian ziggurat, was built 6,000 years ago by slaves for the glory of the god En-lil.

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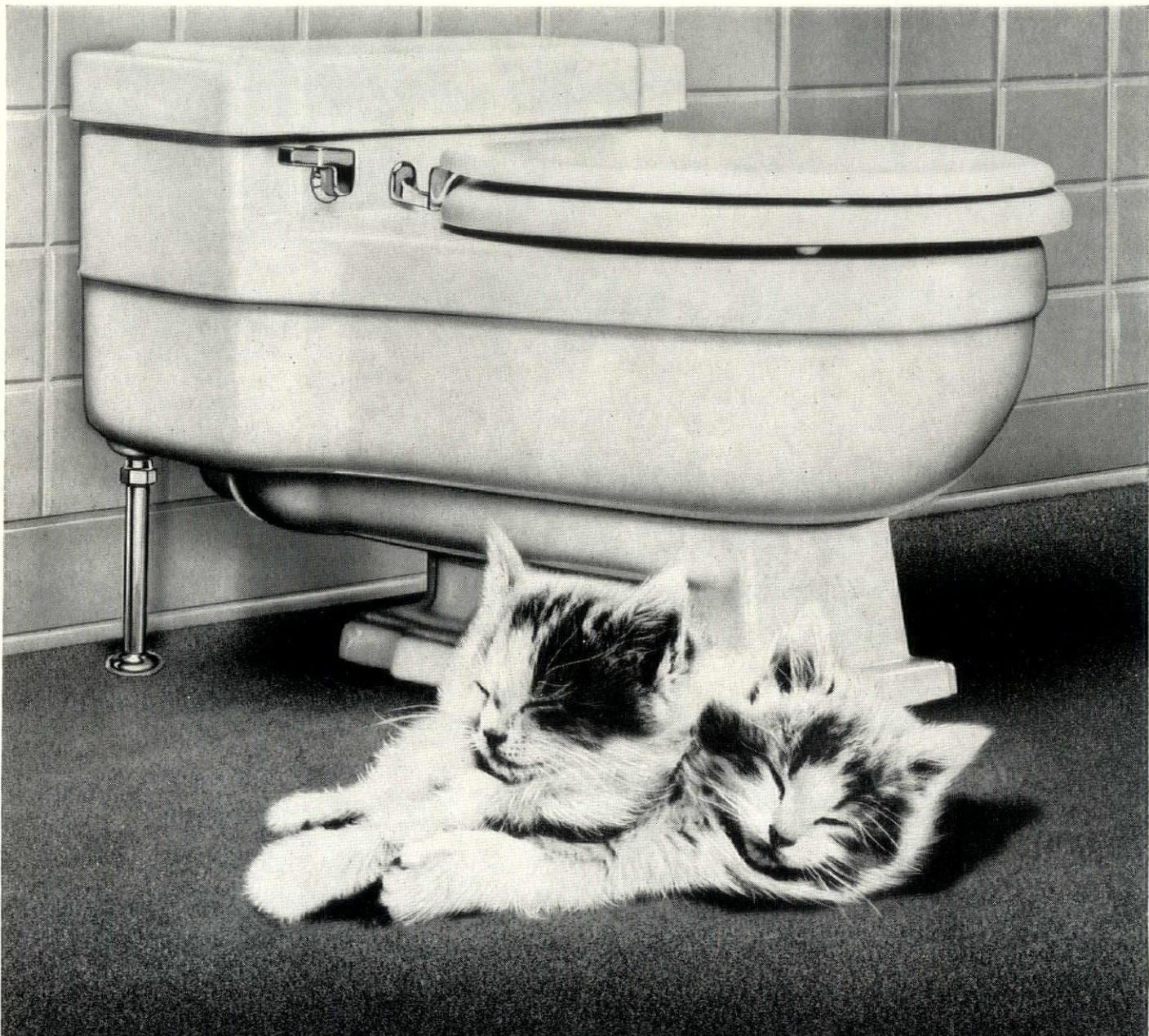
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## MORE ABOUT PLASTICS

MALCOLM B. MOYER, P.E.

Lester Spitzley, V.P. of the R. L. Spitzley Heating Company of Detroit, Michigan has recently been interviewed by "Heating Piping & Air Conditioning," covering his firm's nine years experience with Plastic Pipe.

During this time they have installed it in the Plating Departments of the large automotive industries. These industries specify it for all lines handling process liquids whose temperatures do not exceed 140 degrees F. Above these temperatures the plastic pipe tends to soften.

Of course, they have found jointing and supporting to be one of their problems, but attribute this to the newness of the product. At present, sizes of pipe from  $\frac{1}{2}$  inch to 6 inches are obtainable, Mr. Spitzley states, but fittings are, as yet, a little difficult to secure.

Advertisements are appearing which promote plas-

tic soil pipe for the plumbing trade. It can be brought to the job in 16 to 20 foot lengths and quickly joined with enduring couplers and quick setting cement.

In waste lines from school lavatories, this pipe may soon be substituted for such well known products as "Duriron" with a large saving in cost.

In the structural field, tests have been run in one of the eastern Universities to determine the strength of various types of plastic beams. The results are reported to be good. Ample strength is being combined with lightness at a promised reduced cost.

The recent boost in the price of steel will add new impetus to the production of Plastic Substitutes for many portions of today's buildings, in which iron and steel have been supreme.

The testing period has about run its course. We may soon be using plastics in our buildings with assurance.

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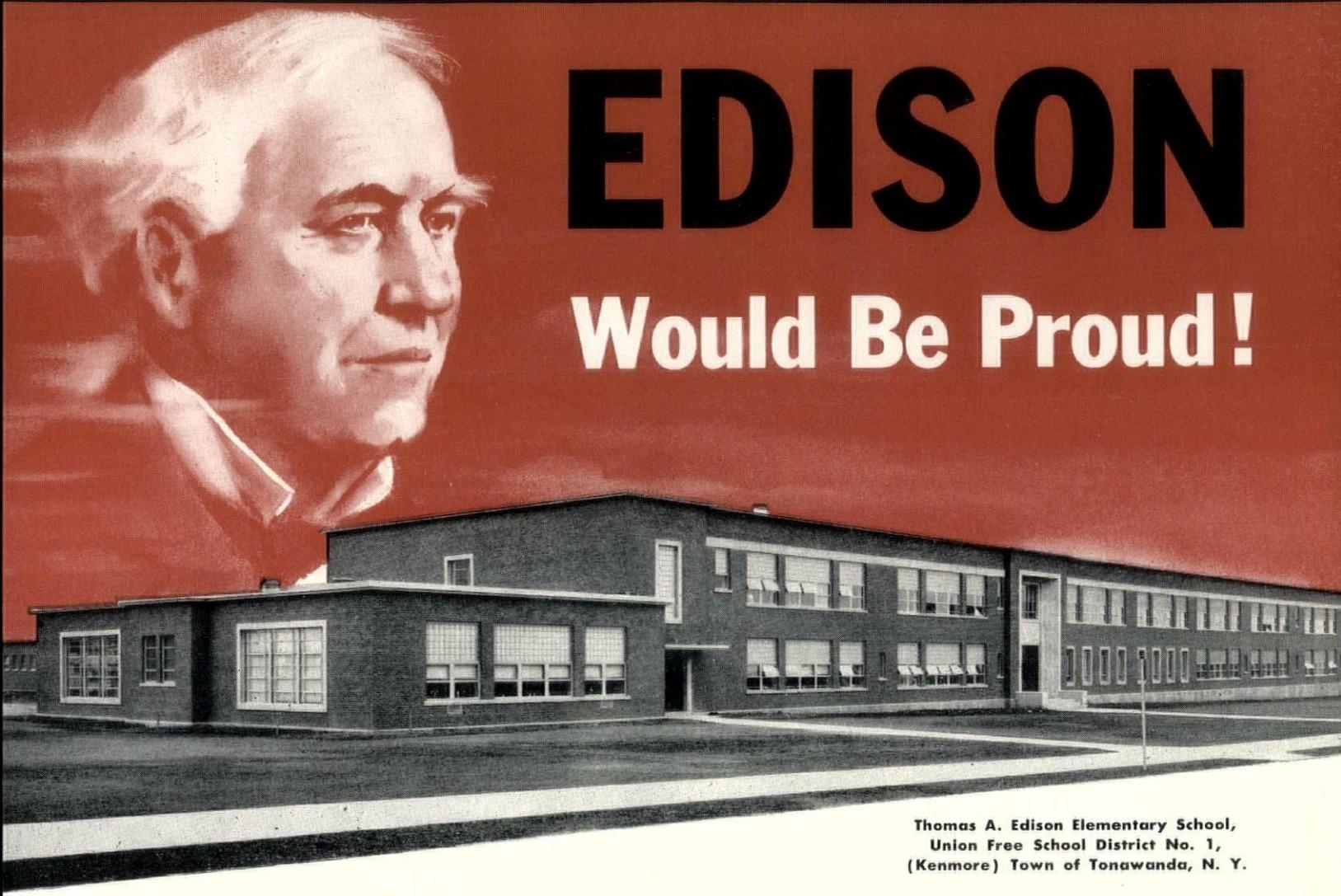
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to mean — vision combined with the technical skills. In building a factory, we see the products being made; in an office building, business being managed. In warehouse plans, we see materials being kept safe until needed. And in building a school, we can't help wondering how many Edisons — or good and useful Jones — may come from it.

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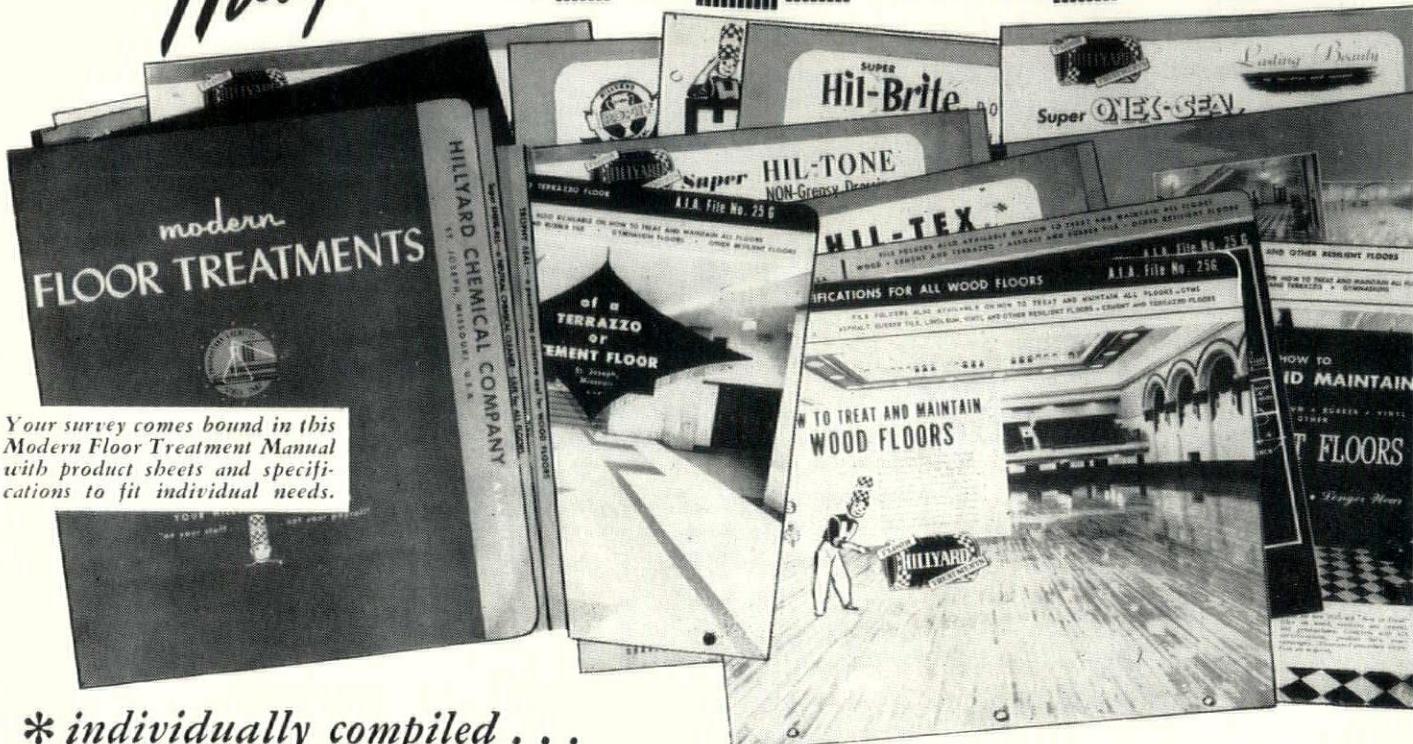


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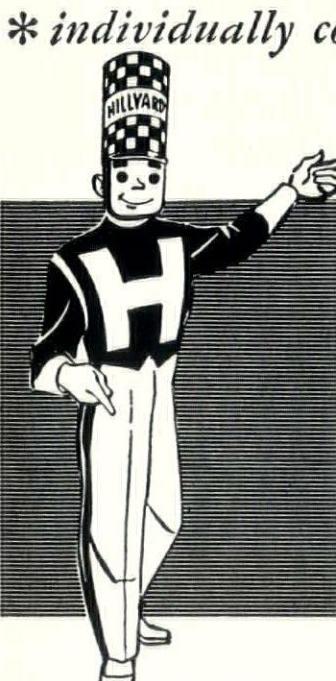
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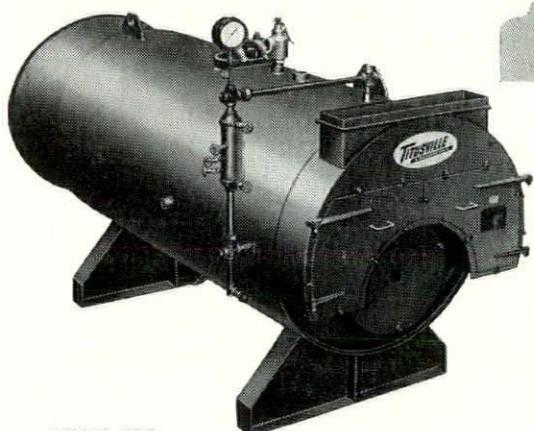
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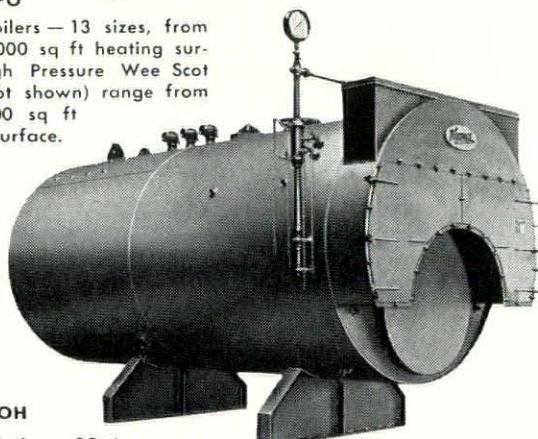
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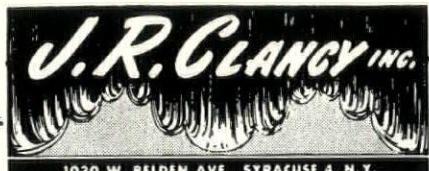
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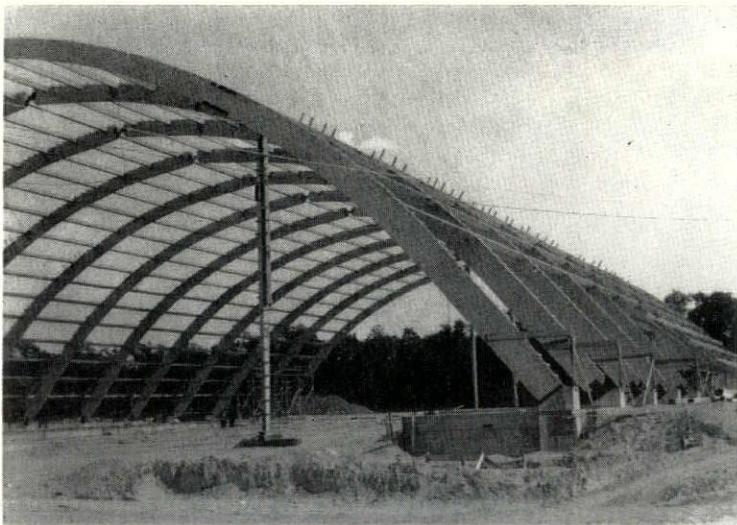
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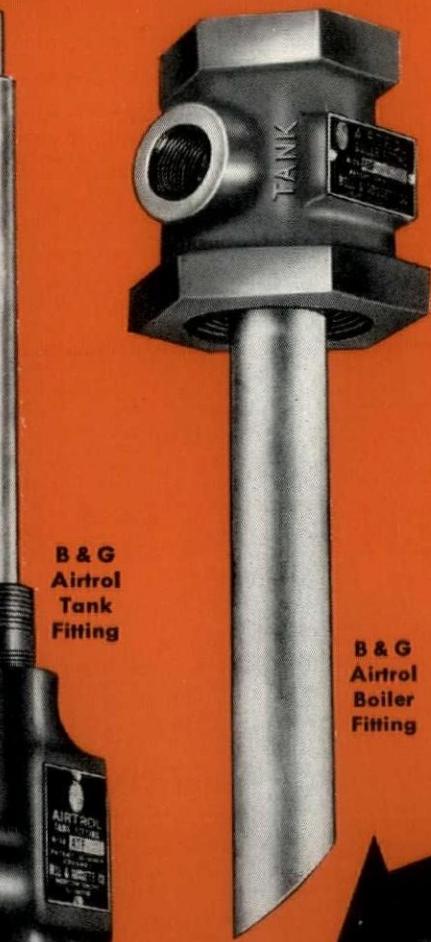
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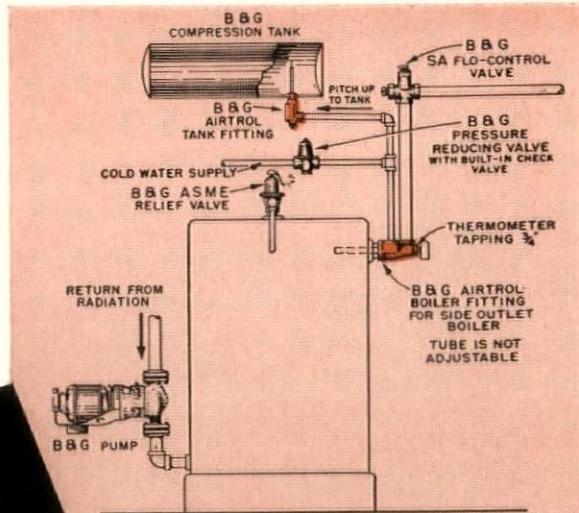


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Mr. Palmer attended Ohio Northern University, of which he is a trustee, and the College of Wooster. He managed radio stations including WBNS, Columbus, O., KOY, Arizona network, and WCKY, Cincinnati, O.

He is listed in Who's Who in Commerce and Industry. He travels 1,000 miles a week, speaks to more than 1,000 people each week. He has conducted a series of closed-circuit sales meetings to more than 10,000 salesmen in the United States, Canada, Alaska, Puerto Rico, and Hawaii.

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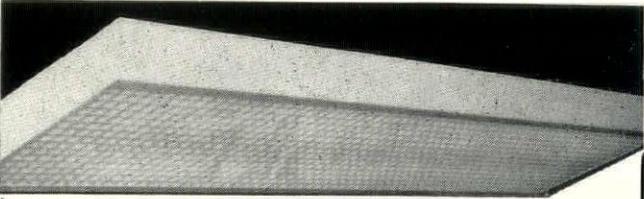
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Carson & Lundin are the architects. Collins, Tuttle & Company is the renting agent.

The new skyscraper will be Tishman Realty's fifth postwar building operation in New York City. The others include the 22-story Universal Pictures Building at 445 Park Avenue (the city's first postwar and first fully air-conditioned office building), the 26-story National Distillers Building at 99 Park Avenue (the city's first aluminum-faced office building), the 22-story addition to the Fawcett Building at 67 West 44th Street and the 22-story Marion Davies Building at 460 Park Avenue.

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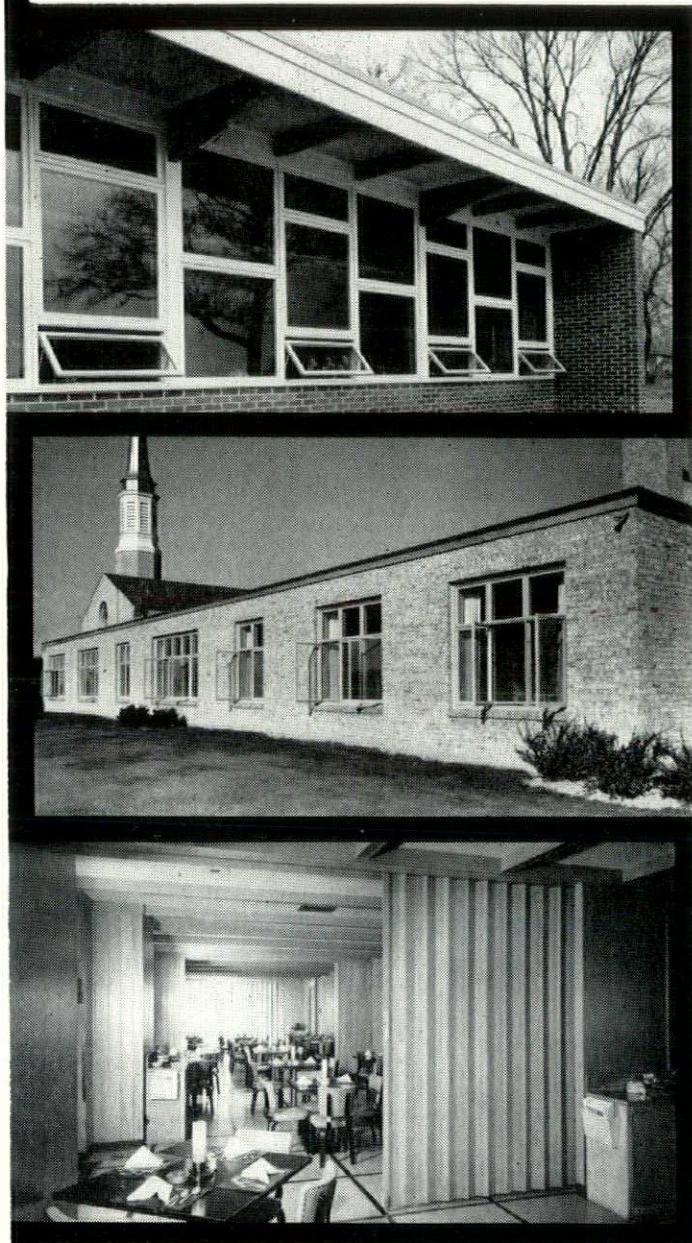
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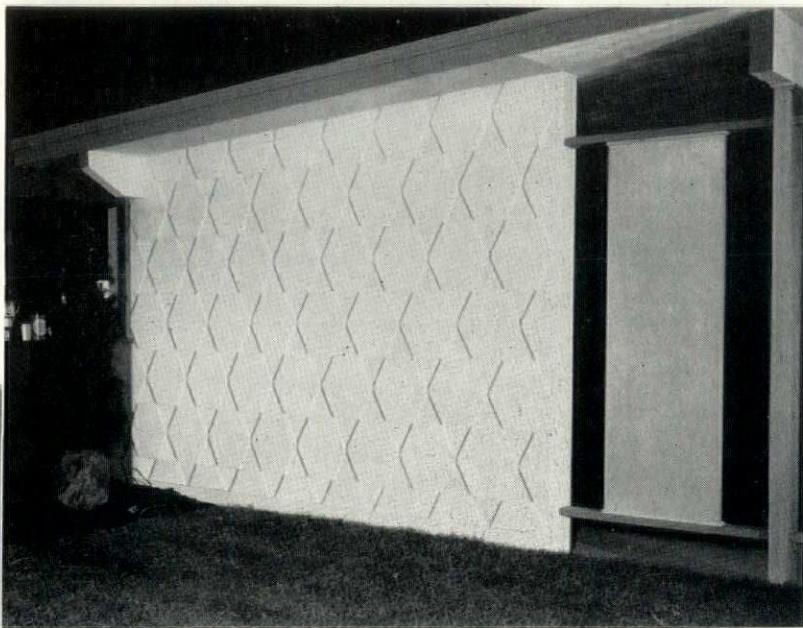
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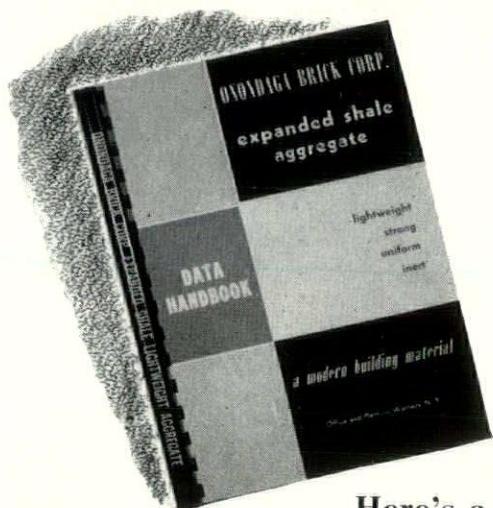
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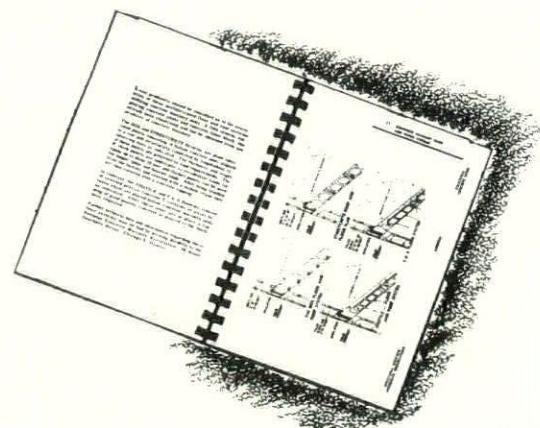
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| Expanded shale  | Rough, plain wall with one coat casein type paint | 0.40                    |
| Sand and gravel | Smooth, plain wall                                | 0.27                    |
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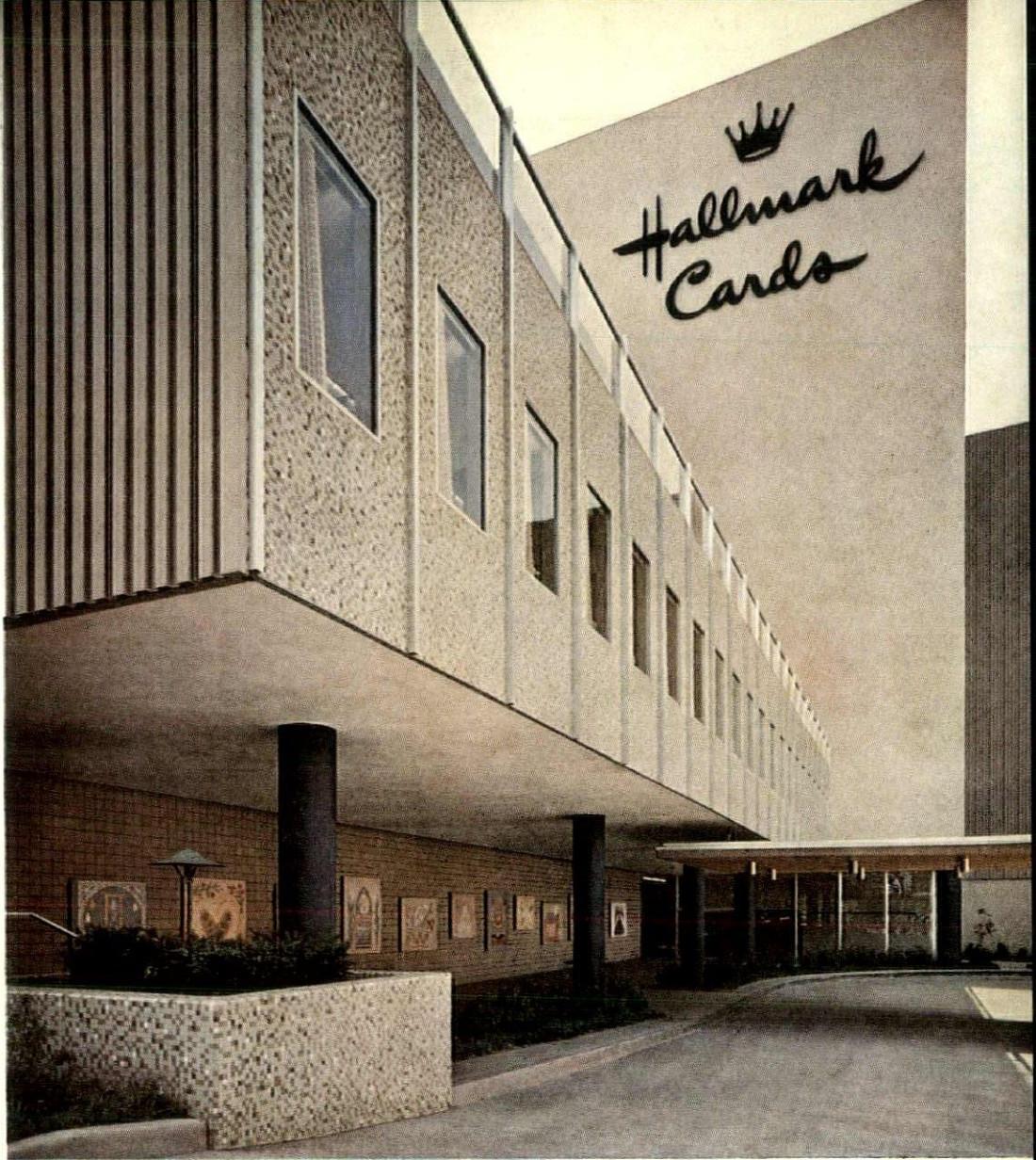
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